

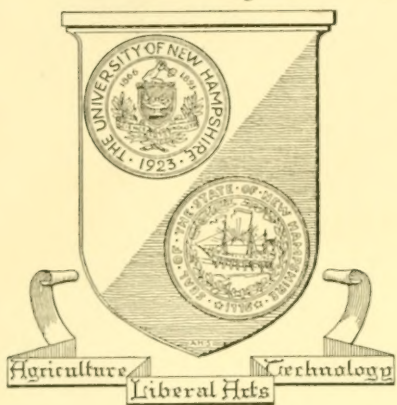
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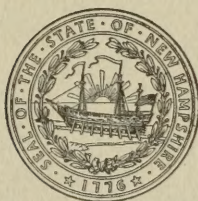
THE UNIVERSITY OF NEW HAMPSHIRE
AGRICULTURAL EXPERIMENT STATION

Department of Agricultural Chemistry

Inspection of Commercial Feeding Stuffs

—1938—

Made for the
State Department of Agriculture



By T. O. Smith and H. A. Davis

The University of New Hampshire

Durham, N. H.

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INSPECTION OF COMMERCIAL FEEDING STUFFS

Made for the

STATE DEPARTMENT OF AGRICULTURE

The inspection of commercial feeding stuffs reported in this bulletin was made under the direction of Honorable Andrew L. Felker, Commissioner of Agriculture. Mr. E. D. Sanborn, State Inspector, collected samples of 471 brands of feeding stuffs which were offered for sale in the State during the year ending June, 1938. This is the largest number of samples analyzed during any inspection year to date. The 471 samples represent brands of 137 manufacturers.

THE LAW

The New Hampshire law, entitled an Act to Regulate the Sale of Concentrated Commercial Feeding Stuff, requires every manufacturer or dealer who shall sell or offer for sale any concentrated commercial feeding stuff to furnish with each package a clearly printed statement certifying the net weight of the feed contained in the package, the brand name or trademark under which the feed is sold, the name and address of the manufacturer, the ingredients of which the feed is composed, and a chemical analysis stating the minimum percentage only of protein, fat and carbohydrates, and the maximum percentage only of crude fiber.

Manufacturers and jobbers who ship concentrated commercial feeding stuffs into the State are required to register each brand and to pay a license fee. Under the provisions of the law if the shipper fails to register, the dealer is responsible. Feeds manufactured in other states frequently pass through several middlemen before they reach the local distributor. Dealers who purchase feed for resale must assure themselves

the brands they purchase are properly registered or assume that responsibility.

In order to secure greater uniformity in the labeling of feeds and in the statement of ingredients, the Association of American Feed Control Officials has adopted definitions and standards. The Association has also approved twenty-one general regulations which "should be adopted by state officials as far as the statutes will permit." There are no conflicts in these regulations with the New Hampshire Feeding Stuffs Law. All manufacturers and dealers are therefore expected to conform to the regulations of the Association in all matters not specifically mentioned in the law.

THE INGREDIENTS

One sentence in the New Hampshire Feeding Stuffs Law reads as follows: "And shall state in bold type upon the container or a tag attached thereto, if a compounded feed, the names of the several ingredients therein contained." To avoid the misinterpretation or deception which may result from the manufacturer's using indefinite terms in listing the ingredients, the Association of American Feed Control Officials has adopted 135 official definitions of ingredients used in the compounding of feeding stuffs. These definitions are subject to frequent revision. At the present time there are also about 30 tentative definitions and a score of definitions that have been suggested for future discussion. Tentative definitions are those which have received favorable consideration, but have not yet been made official. The manufacturers are given an opportunity to express themselves freely on the accuracy of a definition before its adoption as official. At the twenty-ninth annual convention of the Association held in Washington, December 3 and 4, 1937, there were present 45 control officials from the various States and the Dominion of Canada, 17 representatives of the Federal Government and 72 representatives of feeding

stuffs manufacturers and other commercial agencies. The 135 definitions which have been adopted as official, and also the 21 general regulations referred to above, were published in the 1937 feeding stuffs bulletin, pp. 7-23, with a view to assisting the manufacturers in listing the ingredients with accuracy and uniformity. A limited number of copies of this bulletin is still available. A booklet containing these definitions may be obtained from the Secretary of the Association of American Feed Control Officials, College Park, Maryland.

A high degree of accuracy has already been attained by a considerable number of manufacturers. One manufacturer who offered for sale during the last inspection year more than the average number of brands, did not violate the official definitions in a single instance. A large number of manufacturers, however, are either careless or are not yet well informed concerning the Association's requirements. Some typical failures to conform to the official definitions are the following selected from the lists of ingredients furnished by the various manufacturers:

Gluten used to designate corn gluten feed or corn gluten meal.

Meal used to designate one of the more than 30 ingredients which by official definition contain the word meal.

Bran used to designate corn bran, rice bran, rye bran or wheat bran.

Oil used to designate one of the score of ingredients which by official or tentative definition contain the word oil.

Distillers' dried grains used to designate distillers' corn dried grains or distillers' rye dried grains.

Alfalfa used to designate alfalfa meal, alfalfa leaf meal, alfalfa stem meal or chopped alfalfa.

Middlings used to designate wheat middlings or oat middlings.

Carelessness in listing the ingredients may create sales resistance for the feed. The purchaser may assume that the manufacturer who is indefinite in printing the tag will be indifferent in filling the bag.

The chief purpose of the Feeding Stuffs Law is to protect the consumer against the inferior products which would doubtless soon appear on the market if the trade were not under state control. The law is primarily a correct-labelling act. It must not be assumed by the purchaser of feeding stuffs that every brand which meets the manufacturer's guarantee is a high-grade feed. The Feeding Stuffs Law does not prevent the sale of a low-grade feed if it is properly licensed and tagged and is offered for sale in compliance with the law. It would not be in the public interest to legislate against the sale of the lower-grade by-products. They can be fed profitably if bought at a price adjusted to their feeding value. The law does prevent an inferior feed being offered for sale as a high-grade product.

The dealer in purchasing feed from the manufacturer and the consumer in purchasing feed from the dealer should both specify: The feed delivered on this order must comply with the New Hampshire Feeding Stuffs Law. If the feed is not registered; if the protein, fat, carbohydrates and crude fiber are not guaranteed; and if the ingredients of which the feed is composed are not plainly stated on the bag, or a tag attached thereto, the purchaser is not protected by the state feeding stuffs law. He has no recourse under the feeding stuffs law if the feed which he purchases is of inferior quality.

The dealer who offers for sale a feeding stuff which has not been registered and which is not guaranteed in compliance with the law is probably indifferent to his customer's interests in other respects. He does not merit either the confidence or the patronage of the consumer.

The purchaser's co-operation in refusing to buy a feed which does not conform to the law in every respect will not only help in the enforcement of the law but will at the same time afford himself the protection of the law. If the buyer fails to assure himself the legal requirements have been met, he accepts the feeding stuff at his own risk. The state official charged with the enforcement of the feeding stuffs law is the Commissioner of Agriculture. All inquiries concerning the law and all matters relative to the registration of brands should be addressed to his office in Concord.

CLASSIFICATION

In classifying the feeding stuffs here reported, the class name under which they were offered to the consumer has been used. The classes are arranged alphabetically. Table I shows the number of brands in each class, the page on which the analysis may be found, the average price per 100 pounds, the average per cent of protein, the number of pounds of protein per \$1.00, the number deficient by one-half per cent or more of protein, the average per cent fat, the number of pounds of fat per \$1.00, and the number deficient by one-fourth per cent or more of fat.

The columns pounds of protein per \$1.00 and pounds of fat per \$1.00 are included for the convenience of consumers interested in the comparative cost of protein and fat in the different concentrates. They are not corrected for the varying amounts of the other constituents.

TABLE I

Class	Analyses on page	Number in class	Average price per 100 pounds	Average per cent protein	Pounds of protein per \$1.00	Number deficient ½ per cent protein	Average per cent fat	Pounds of fat per \$1.00	Number deficient ¼ per cent fat
Alfalfa Leaf Meal	14	1	2.45	20.66	8.4	0	2.41	1.0	0
Alfalfa Meal	14	5	2.33	17.91	7.7	1	2.00	0.9	1
Barley Feed	14	1	1.80	13.31	7.4	0	3.17	1.8	0
Calf Meal	15	10	3.83	22.10	5.8	1	4.56	1.2	0
36% Cottonseed Meal	17	1	1.90	36.16	19.0	0	6.38	3.4	0
41% Cottonseed Meal	17	8	1.92	41.13	21.4	0	6.43	3.3	0
Dairy Feed	18	131	1.95	20.89	10.7	11	2.11	2.1	26
Distillers' Corn Dried Grains	43	3	2.13	28.62	13.4	0	8.76	4.1	0
Feed Meal	43	2	3.63	60.64	16.7	0	8.82	2.4	0
Floury Leaf Grain Concentrate	33	1	7.00	24.30	3.5	0	0.11	0.02	1
Gluten Feed, Corn	43	5	1.75	27.96	16.0	0	2.26	1.3	0
Gluten Meal, Corn	44	2	2.15	43.40	20.2	0	3.71	1.7	0
Hominy Feed	44	2	1.68	10.01	6.0	0	6.82	4.1	0
Horse Feed	45	10	2.09	10.77	5.2	0	3.44	1.6	0
Kelp	46	1	3.50	5.17	1.5	0	0.31	0.01	0
Leaves Meal	46	4	2.69	34.09	12.7	0	5.34	2.0	0
Meat Scrap	46	6	2.43	48.34	19.9	1	10.05	4.1	0
Milk, Dried Skimmed	47	5	6.17	33.56	5.4	1	1.48	0.2	0
Oat Meal	48	5	2.06	14.14	6.9	1	5.59	2.7	0
Oat Mill Feed	48	7	1.22	5.08	4.2	1	1.29	1.1	3
Pig and Hog Feed	49	11	2.19	20.39	9.3	0	4.43	2.0	2
Peas Feed	51	145	2.38	18.95	8.0	12	5.01	2.1	10
Rye Feed	78	1	....	16.99	....	0	3.00	....	0
Soybean Oil Meal	78	6	1.94	42.70	22.0	1	5.12	2.6	0
Stock Feed	79	15	1.74	9.92	5.7	0	4.21	2.4	1
Wheat Bran	81	33	1.66	15.96	9.6	5	4.34	2.6	0
Wheat Middlings	86	24	1.72	17.37	10.1	0	4.57	2.7	2
Wheat Mixed Feed	89	17	1.84	16.27	8.8	2	4.25	2.3	1
Wheat Red Dog	91	7	1.92	18.23	9.5	0	3.58	1.8	3
Wheat Short	92	2	1.73	16.40	9.4	1	4.44	2.6	1
		471				38			51

NUMBER OF SAMPLES FAILING TO COMPLY WITH THE LAW

Two hundred fourteen of the 471 brands analyzed failed to comply with the law in every respect, violating it on 277 counts. About eighty per cent of the violations, however, are negligible if considered on the basis of the value of the feed to the purchaser.

Eighteen brands were found more than one per cent below guarantee in the most valuable constituent, protein. Twenty brands were below guarantee more than one-half per cent but less than one per cent. Fourteen brands were less than one-half per cent below guarantee. The 52 brands found below guarantee in protein is equivalent to 11.0 per cent of the brands analyzed.

Ninety-seven brands or 20.6 per cent were below guarantee in fat; 46 of these were less than one-fourth per cent below guarantee.

Fifty-four brands contained an excessive amount of crude fiber. Seventy-one brands were below guarantee in carbohydrates. Three samples failed to carry the carbohydrates guarantee. In the analysis of a feeding stuff, the percentage of carbohydrates is usually determined indirectly. It is found by subtracting the sum of the percentages of protein, fat, moisture and ash from 100. It is obvious that an excess of protein or fat over the manufacturer's guarantee decreases the percentage of carbohydrates found. Nearly all of this year's carbohydrates deficiencies are due to the protein or fat or both exceeding the guarantee.

In the tabulation of the analytical figures, pps. 14 to 92 inclusive, those figures one-half per cent or more below guarantee in protein and one-fourth per cent or more below guarantee in fat are printed in bold-faced type.

Table II shows the percentage of samples failing to conform to the guarantee in each of the last thirteen years.

TABLE II

Year	Per cent fat-free matter in Protein	Per cent 0.50 or more below Guarantee in Protein	Per cent below Guarantee in Fat	Per cent 0.25 or more below Guarantee in Fat	Per cent High in Crude Fiber	Per cent low in Carbo- hydrates	Per cent with no Carbo- hydrates Guarantee
1926	24.0	16.0	14.0	10.0	6.0	6.5	22.5
1927	24.7	16.4	19.4	13.6	5.9	17.9	14.4
1928	29.8	20.7	13.6	9.3	7.9	10.6	11.7
1929	30.7	20.2	12.1	9.3	6.5	10.3	9.5
1930	17.0	13.1	12.0	8.0	3.9	16.5	16.2
1931	9.0	7.2	15.6	9.7	5.3	15.6	11.2
1932	3.2	1.4	13.1	8.1	2.8	15.5	16.9
1933	4.9	3.6	17.3	9.8	3.6	18.1	5.9
1934	6.4	3.4	11.0	7.1	9.8	16.4	6.6
1935	5.4	3.0	12.7	8.5	9.9	19.8	5.4
1936	8.1	5.2	13.8	8.3	12.2	18.0	0.5
1937	7.0	4.2	9.0	6.0	11.0	21.7	0.0
1938	11.0	8.1	20.6	10.8	11.5	15.1	0.6

REQUESTS FOR THE ANALYSIS OF FEEDING STUFFS BY INDIVIDUALS

Under the Feeding Stuffs Law the Agricultural Experiment Station is charged only with the analysis of samples of feeding stuffs collected by the State Inspector under the direction of the Commissioner of Agriculture. It does, however, each year analyze a considerable number of samples drawn by individuals representing stock purchased by them for their own use. The object of the purchaser who asks to have the sample analyzed is usually to satisfy himself whether the feed meets its guarantee and if it does not, to obtain evidence upon which to base a claim for shortage.

The Station can assume no responsibility for the sampling of these unofficial samples but can attest only the accuracy of the analysis of the sample as submitted. It is practically impossible to secure a representative sample of a feeding stuff composed of several ingredients varying widely in composition without the aid of a sampling tube for drawing the sample and proper equipment for mixing it. A feed may contain as one of its ingredients gluten meal averaging 40 per cent protein, and as another ingredient oat feed averaging five per cent protein. These materials are so different in physical condition that the shaking in transit tends to separate them even though they may have been perfectly mixed by the manufacturer before bagging. It is apparent that an accurate sample of a ton of this feed can only be had by drawing a core from several bags. The official method requires ten. Since a representative sample is as essential as an accurate analysis in judging the value of a shipment of feed, it is evident that a satisfactory adjustment can seldom be effected on the basis of an unofficial sample.

Notwithstanding the objections which may be raised to the analysis of samples taken without proper sampling equipment, the Station is disposed to continue this work as long as

there is evidence that it constitutes a useful service. The samples so submitted should be drawn from at least ten bags in a manner which will insure that the small lot sent for analysis is as accurately representative as possible of the larger lot from which it is taken. Because of the cost of labor and materials, an analysis is not usually warranted on a sample drawn from less than a one ton lot of feed.

A one pound sample is sufficient for the analysis. It should be sent in a glass jar or tin box to prevent the loss of fine particles and a change in the moisture content. In order that the Department may have a satisfactory record of the sample analyzed and may know whether or not the manufacturer and the dealer are complying with the requirements of the law, the following information should be submitted concerning each sample.

Brand
Manufacturer
Address
Guarantee:
 Protein
 Fat
 Carbohydrates
 Moisture
 Ash
 Crude Fiber
Ingredients
.....
.....
Dealer
Address
Number of bags in lot
Number of bags sampled
Price per 100 pounds
Your name
Your address
Your reason for requesting analysis
.....

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	
ALFALFA LEAF MEAL						
Green Acres Alfalfa Leaf Meal	G. 26.00	3.56	53.00	.....	.....	18.00
Fernando Valley Milling and Supply Co., Lodi, Cal.	F. 26.66	3.41	57.69	11.25	7.99	.....
ALFALFA MEAL						
Green Prize Alfalfa Meal	G. 17.00	2.00	40.00	.....	.....	27.00
A. H. Cope Co., Toledo, O.	F. 20.84	3.78	61.25	9.80	5.79	.....
Green Acres Brand Alfalfa Meal	G. 17.00	2.00	63.00	.....	.....	27.00
Green Acres Trading Co., Nazareth, Pa.	F. 18.33	2.44	60.20	11.45	7.39	.....
Superior Alfalfa Meal, Meadow Brook Farms Brand	F. 17.00	2.00	.....	.....	.....	27.00
Meadow Brook Farms Nazareth, Pa.	G. 19.09	3.71	62.26	10.58	5.76	23.77
ALFALFA MEAL						
Alfalfa Meal	G. 17.00	1.50	69.00	.....	.....	27.00
Pecos Valley Alfalfa Mill Co., Hagerman, N. M.	F. 12.26	1.12	71.95	6.81	7.50	56.05
Velvet Brand Alfalfa Meal	G. 17.00	1.50	63.00	.....	.....	23.00
Pecos Valley Alfalfa Mill Co., Hagerman, N. M.	F. 14.82	1.68	63.30	11.89	4.88	.....
BAGGLEY FEED						
Barley Feed	G. 11.00	3.00	74.00	.....	.....	12.00
Quaker Oats Co., Chicago, Ill.	F. 13.31	3.17	70.84	3.56	9.13	7.83

Pounds in 100 lbs. of Feeding Stuffs

Brand and Manufacturer	Certified by manufacturer to contain				
	Protein	Fat	Carbo- hydrate	Ash	Moisture
Blanchard's Improved Calf Meal Blanchford Calf Meal Co. Waukegan, Ill.	G. F. 20.99 24.61	5.00 4.76	52.00 50.56	10.40	9.45 9.62
Eastern Steam Calf Starter Eastern Steam Farmers' Exchange Sturtevant, Mass.	G. F. 21.00 24.17	4.00 3.84	52.00 51.94	5.36	9.69
Glacis, Saco Calf Meal E. O. & W. L. Hopkins Greenfield, N. H.	G. F. 18.00 18.83	3.50 3.99	53.00 52.96	7.54	10.69
Larro Calf Builder Larroe Milling Co. Detroit, Mich.	G. F. 23.00 23.82	4.00 4.56	54.50 54.59	6.61	8.67
Merrimack Calf Meal Merrimack Farmers' Exchange Concord, N. H.	G. F. 20.00 22.29	4.50 4.76	52.00 50.87	4.14	9.99
Real Calf Meal Jacob Trinley & Sons Linfield, Pa.	G. F. 19.00 19.52	3.50 4.24	53.00 56.14	9.84	10.16

Anise, dried milk albumen, locust bean meal, fenugreek, rice polish, unpressed linseed, blood flour, cocoa, coconut oil meal, fish meal, soybean oil meal, wheat flour, potassium iodide, bean meal, barley meal, cottonseed meal, wheat flour middlings, linseed meal, cod liver oil, calcium carbonate, salt.

Yellow corn meal, oats, wheat bran, blood flour, dried skimmed milk, linseed meal, soybean oil meal, dicalcium phosphate, salt, uridine oil.

Corn meal, rolled oats, wheat bran, linseed meal, fish meal, dried skimmed milk, kelp, calcium carbonate, bone meal, cod liver oil.

Oil meal, dried skimmed milk, yellow corn meal, wheat standard middling, linseed meal, blood flour, cod liver oil, limestone, salt, soybean oil meal.

Soybean oil meal, oat groats, linseed meal, wheat red dog, hominy, dried blood, fish meal, anise, fenugreek, cod liver oil, dried milk.

Oat meal, dried skimmed milk, alfalfa meal, linseed meal, wheat middling, alfalfa feed, corn meal, bone meal, molasses, salt.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
DAIRY FEED							
Primary 24% Dairy Feed Allied Mills Chicago, Ill.	G. 20.00 F. 21.36	3.50 4.63	51.00 58.06	7.52	8.43	11.00 10.09	Soybean oil meal, cottonseed meal, corn meal, corn distillers' dried grains, brewers' dried grains, corn gluten feed, oats, wheat bran, cane molasses, limestone, salt, steamed bone meal, iron oxide, potassium iodide.
Primary 16% Dairy Feed Allied Mills Chicago, Ill.	G. 16.80 F. 19.57	3.00 3.85	57.00 58.48	8.61	9.49	12.00 10.62	Distillers' corn dried grains, brewers' dried grains, soybean oil meal, corn gluten meal, corn gluten feed, cottonseed meal, corn meal, wheat bran, screenings from flax, wheat, corn, oats and barley, oat mill feed, cane molasses, limestone, salt.
Primary 20% Dairy Ration Allied Mills Chicago, Ill.	G. 20.00 F. 22.20	3.50 4.39	52.00 56.93	8.06	8.42	12.00 11.41	Distillers' corn dried grains, brewers' dried grains, soybean oil meal, corn gluten feed, cottonseed meal, corn meal, wheat bran, screenings from flax, wheat, corn, oats and barley, clipped oat by-products, cane molasses, limestone, salt.
June Pasture Allied Mills Chicago, Ill.	G. 10.00 F. 12.83	0.50 0.66	66.00 68.04	11.48	6.99	21.00 18.02	Alfalfa meal, beet molasses.
Wayne Amco 20% Dairy Ration Allied Mills Chicago, Ill.	G. 20.00 F. 22.64	4.00 4.82	54.00 54.71	7.53	9.30	9.00 8.39	Cottonseed meal, brewers' dried grains, distillers' corn dried grains, oats, corn gluten feed, corn meal, hominy meal, soybean oil meal, corn gluten meal, linseed meal, wheat bran, cane molasses, bone meal, limestone, salt, iron oxide, potassium iodide.

Wayne Amco 24% Dairy Ration Allied Mills Chicago, Ill.	G.	24.00	4.00	49.00	....	7.46	....	8.37	9.00	Cottonseed meal, corn gluten meal, distillers' corn dried grains, brewers' dried grains, corn feed, linseed meal, soybean oil meal, peanut oil meal, oats, corn meal, hominy meal, wheat bran, cane molasses, steamed bone meal, limestone, salt, iron oxide, potassium iodide.
	F.	25.53	5.42	53.22	....	....	....	....	8.80	
Wayne Amco 12% Fitting Ration Allied Mills Chicago, Ill.	G.	12.00	3.50	59.00	....	6.35	....	9.52	9.00	Distillers' corn dried grains, corn meal, hominy meal, soybean oil meal, oats, linseed meal, wheat bran, brewers' dried grains, cane molasses, steamed bone meal, limestone, salt, iron oxide, potassium iodide.
	F.	14.67	4.38	65.08	....	....	....	....	7.29	
Bailey's 16% Dairy Ration E. W. Bailey & Co. Montpelier, Vt.	G.	16.00	5.00	60.00	....	6.98	....	11.72	9.00	Corn gluten feed, linseed meal, hominy feed, cottonseed meal, oats, wheat bran, bone meal, calcium carbonate, salt, molasses.
	F.	15.91	4.79	60.60	....	....	....	....	6.80	
Bailey's New Deal Dairy Ration E. W. Bailey & Co. Montpelier, Vt.	G.	20.00	5.00	58.00	....	7.03	....	8.40	11.00	Corn gluten feed, white hominy feed, brewers' dried grains, cottonseed meal, linseed meal, standard wheat middlings, wheat bran, oat meal mill by-products, salt, bone meal, calcium carbonate, molasses.
	F.	20.88	4.95	58.74	....	....	....	....	10.26	
Capital Dairy Ration Sweetened E. W. Bailey & Co. Montpelier, Vt.	G.	24.00	4.50	55.00	....	7.93	....	9.50	9.00	Corn gluten feed, linseed meal, hominy feed, cottonseed meal, oats, wheat bran, corn meal, soybean meal, bone meal, calcium carbonate, salt, molasses.
	F.	24.87	4.19	53.42	....	....	....	....	6.63	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
Barco 20% Dairy Ration Sweetened G. N. Bartemus Co., Montpelier, Vt.	G. 20.00 F. 21.67	4.00 4.24	55.00 56.57	7.51	10.01	7.50 6.38
Barco 20% Dairy Ration G. N. Bartemus Co., Concord, N. H.	G. 20.00 F. 21.54	4.50 3.96	55.00 56.44	7.38	10.08	7.50 6.87
Barco 24% Dairy Ration Sweetened G. N. Bartemus Co., Concord, N. H.	G. 24.00 F. 24.08	5.00 4.05	55.00 53.49	8.01	10.37	9.00 7.17
Barco Fatting Ration G. N. Bartemus Co., Concord, N. H.	G. 14.00 F. 14.06	4.00 3.80	58.00 64.51	5.58	12.05	8.00 6.59
Concord 20% Dairy Ration G. N. Bartemus Co., Concord, N. H.	G. 20.00 F. 21.41	3.00 3.28	45.00 56.90	7.56	10.85	9.00 7.76
Henniker Fitting Ration G. N. Bartemus Co., Concord, N. H.	G. 11.20 F. 11.91	3.10 2.72	50.00 66.75	8.11	10.51	11.00 12.29
New Deal 20% Dairy Ration G. N. Bartemus Co., Concord, N. H.	G. 20.00 F. 20.00	5.00 4.46	58.00 59.18	6.94	9.42	11.00 11.19

Special 16% Dairy Ration G. N. Bartemus Co. Concord, N. H.	G. 16.00 F. 16.46	3.70 3.70	48.00 64.14	 8.06	 7.64	13.00 13.73	Brewers' dried grains, corn gluten meal, corn gluten feed, soybean oil meal, linseed meal, distillers' corn dried grains, oat mill feed, corn meal, wheat bran, molasses, bone meal, salt, calcium carbonate.
Special 20% Dairy Ration G. N. Bartemus Co. Concord, N. H.	G. 20.00 F. 21.19	3.65 3.46	48.00 57.45	 8.35	 9.55	10.00 9.13	Corn gluten feed, wheat brown shorts, oat mill feed, corn meal, wheat bran, cottonseed meal, salt, molasses, bone meal, calcium carbonate.
Auburn Dairy Feed Beacon Milling Co. Cayuga, N. Y.	G. 20.00 F. 20.92	4.00 4.34	50.00 56.84	 8.88	 9.02	10.00 8.53	Corn gluten feed, linseed meal, soybean oil meal, oats, corn meal, grain screenings, cottonseed meal, wheat bran, barley, brewers' dried grains, distillers' corn dried grains, molasses, salt, calcium carbonate.
Beacon 20 Beacon Milling Co. Cayuga, N. Y.	G. 20.00 F. 20.57	4.50 4.53	55.00 58.10	 7.46	 9.34	9.00 8.17	Linseed meal, cottonseed meal, soybean oil meal, corn gluten feed, corn, gluten meal, corn meal, wheat bran, wheat middlings, distillers' corn dried grains, oats, barley, salt, calcium carbonate, molasses.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Beacon Sweet 20 Beacon Milling Co. Cayuga, N. Y.	G. 20.00	4.00	50.00	...	...	9.00	Linseed meal, soybean oil meal, distillers' corn dried grains, cottonseed meal, wheat bran, wheat middlings, brewers' dried grains, corn gluten meal, corn gluten feed, barley, corn meal, oats, molasses, calcium carbonate, salt.
	E. 20.09	4.35	57.13	8.62	9.81	7.48	
Beacon Test Cow Ration Beacon Milling Co. Cayuga, N. Y.	G. 18.00	4.75	55.00	...	...	9.00	Linseed meal, cottonseed meal, distillers' corn dried grains, soybean oil meal, corn gluten feed, corn meal, wheat bran, oats, barley, molasses, salt, calcium carbonate.
	F. 19.13	5.14	58.81	7.05	9.87	7.68	
Berry's Special Dairy Ration L. Clayton Berry Lebanon, N. H.	G. 20.00	4.00	50.00	...	...	10.00	Corn meal or hominy feed, corn gluten feed, cottonseed meal, wheat bran, brewers' dried grains, distillers' corn dried grains, oats, linseed meal, soybean oil meal, calcium carbonate, salt, molasses.
	F. 22.15	4.16	57.04	6.25	10.40	10.41	

V-D for Quality Feed Mixing Blatchford Calf Meal Co. Waukegan, Ill.	G.	31.00	5.00	50.00	....	....	575	Locust bean meal, anise, crushed flax seed, dried milk albumen, codfish residue meal, blood flour, cocoa, fenugreek, potassium, iodide, cod liver oil, rice polish, wheat flour middlings, coconut oil cake meal, soybean oil cake meal, steamed bone meal, linseed meal, salt.
	F.	31.09	6.47	43.90	10.14	8.40	544	
Dunbar's Dairy Ration E. A. Cowee Co. Fitchburg, Mass.	G.	22.00	4.50	48.00	....	....	11.00	Wheat bran, linseed meal, cottonseed meal, brewers' dried grains, oats, hominy, corn gluten meal, bone meal, charcoal, calcium carbonate, salt.
	F.	23.12	4.88	54.52	8.32	9.16	9.59	
Champion Dairy Ration G. B. Currier Co. Colebrook, N. H.	G.	24.00	4.75	50.00	....	....	8.50	Wheat bran, cottonseed meal, corn gluten feed, corn gluten meal, linseed meal, oats, corn meal or hominy, brewers' dried grains, distillers' dried grains, wheat middlings, salt, bone meal.
	F.	22.45	4.57	55.32	8.40	9.26	8.36	
Danville 20% Dairy Ration Danville Grain Co. Danville, Vt.	G.	20.00	4.00	55.00	....	....	10.00	Linseed meal, cottonseed meal, corn gluten feed, standard wheat bran, standard wheat middlings, corn gluten meal, malt sprouts, oats, corn meal, molasses, calcium carbonate salt.
	F.	19.91	3.27	57.29	8.66	10.87	8.47	
Delaware Fitting Ration Delaware Mills Deposit, N. Y.	G.	13.00	4.00	60.00	....	....	10.00	Molasses, wheat bran, wheat middlings, corn meal, oats, linseed meal, soybean oil meal, peanut oil meal, phosphatic calcium car- bonate, salt.
	F.	14.75	3.94	63.66	5.19	12.46	5.89	
Delaware Sweet 20% Dairy Feed Delaware Mills Deposit, N. Y.	G.	20.00	4.50	50.00	....	....	10.00	Cane molasses, linseed meal, corn gluten feed, corn gluten meal, cottonseed meal, soybean oil meal, distillers' corn dried grains, peanut oil meal, wheat middlings, hominy feed, oats, barley, phosphatic calcium carbonate, salt.
	F.	21.71	3.77	56.54	7.59	10.39	9.30	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Delaware Sweet 24% Dairy Feed Delaware Mills Deposit, N. Y.	G. 24.00	4.50	50.00	...	...	9.00	Cane molasses, corn gluten feed, corn gluten meal, linseed meal, cottonseed meal, soybean oil meal, distillers' corn dried grains, hominy feed, peanut oil meal, corn meal, wheat bran, wheat middlings, salt, phosphatic calcium carbonate.
	F. 24.04	3.86	56.66	5.65	9.79	7.83	
Delco Sweet 20% Dairy Ration Delaware Mills Deposit, N. Y.	G. 20.00	4.00	50.00	...	...	10.00	Cane molasses, linseed meal, soybean oil meal, cottonseed meal, corn gluten feed, distillers' corn dried grains, wheat bran, wheat middlings, corn meal or hominy feed, oats, phosphatic calcium carbonate, salt.
	F. 20.58	3.49	57.86	8.61	9.46	9.53	
Indian Sweet 16% Dairy Feed Delaware Mills Deposit, N. Y.	G. 16.00	3.50	55.00	...	...	14.00	Molasses, wheat bran, wheat middlings, soybean oil meal, corn gluten feed, cotton- seed meal, brewers' dried grains, alfalfa meal, grain screenings, oat feed, peanut oil meal, corn meal, phosphatic calcium carbonate, salt.
	F. 17.89	3.39	59.07	8.81	10.84	11.82	
Indiana Sweet 20% Dairy Feed Delaware Mills Deposit, N. Y.	G. 20.00	4.00	50.00	...	...	12.00	Cane molasses, linseed meal, corn gluten feed, cottonseed meal, soybean oil meal, peanut oil meal, wheat bran, wheat mid- dlings, corn meal, oat feed, distillers' corn dried grains, phosphatic calcium carbonate, salt.
	F. 21.19	3.77	57.43	8.08	9.53	10.13	
Indiana Sweet 24% Dairy Feed Delaware Mills Deposit, N. Y.	G. 24.00	4.00	50.00	...	...	12.00	Cane molasses, corn gluten feed, linseed meal, cottonseed meal, soybean oil meal, peanut oil meal, corn meal, wheat bran, wheat middlings, distillers' corn dried grains, oat feed, salt, phosphatic calcium carbonate.
	F. 24.03	3.81	54.98	7.65	9.53	10.00	

Big 4 Feed Dietrich & Gambrell Frederick, Md.	G.	12.00	2.50	62.00	...	...	16.00	Alfalfa meal, wheat bran, brewers' dried
	F.	14.75	3.05	64.25	7.26	10.69	16.31	grains, beet pulp, molasses, salt, bone meal, calcium carbonate, potassium iodide.
D & G Dairy Feed Dietrich & Gambrell Frederick, Md.	G.	20.00	4.00	54.00	...	...	12.00	Cottonseed meal, peanut meal, linseed meal,
	F.	20.09	3.82	57.15	8.43	10.51	9.47	corn gluten feed, corn feed meal, wheat bran, grain screenings, clipped oat by-products, oat middlings, oat shorts, oat hulls, molasses, bone meal, calcium carbonate, salt, potassium iodide.
Gambrell's A 1 Dairy Feed Dietrich & Gambrell Frederick, Md.	G.	24.00	4.60	51.00	...	...	9.00	Corn gluten feed, cottonseed meal, linseed
	F.	24.12	4.88	53.96	7.67	9.37	7.74	meal, peanut meal, brewers' dried grains, wheat bran corn feed meal, wheat middlings, molasses, calcium carbonate, bone meal, salt, oats.
Gambrell's 16% Dairy Feed Dietrich & Gambrell Frederick, Md.	G.	16.00	3.50	57.00	...	...	12.00	Cottonseed meal peanut meal, corn gluten
	F.	17.29	3.74	60.08	8.68	10.21	11.41	feed, wheat bran, corn feed meal, wheat screenings, clipped oat by-products, oat middlings, oat shorts, oat hulls, molasses, bone meal, calcium carbonate, salt.
Pen-Mar Dairy Feed Dietrich & Gambrell Frederick, Md.	G.	20.00	4.00	56.00	...	...	9.00	Corn gluten feed, cottonseed meal, linseed
	F.	20.66	4.04	57.61	7.64	10.05	8.09	meal, peanut meal, brewers' dried grains, oats, corn feed meal, wheat bran, wheat middlings, molasses, calcium carbonate, bone meal, salt, potassium iodide.
Franklin Open Formula Dairy Ration W. E. Dunbar Sons Franklin, N. H.	G.	20.00	4.00	50.00	...	...	9.00	Corn meal, wheat bran, corn distillers'
	F.	20.62	4.01	57.63	5.53	12.21	6.42	grains, corn gluten feed, cottonseed meal, soybean oil meal, oats, molasses, salt, calcium phosphate.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
Eastern States Feeding Radon Eastern States Farmers' Exchange Springfield, Mass.	G. 12.00 F. 15.68	3.50 4.21	60.00 63.35	6.04 6.04	10.72	8.00 6.77
Eastern States Feeding Radon Eastern States Farmers' Exchange Springfield, Mass.	G. 11.00 F. 13.38	4.00 4.55	52.00 56.58	6.53 6.53	10.16	8.50 7.07
Eastern States Highland 12 Eastern States Farmers' Exchange Springfield, Mass.	G. 12.00 F. 14.75	2.75 3.88	60.00 64.94	6.65 6.65	9.78	8.00 8.00
Eastern States Highland 20 Eastern States Farmers' Exchange Springfield, Mass.	G. 20.00 F. 21.10	3.50 3.58	53.00 58.27	7.60 7.60	9.45	11.00 9.76
Eastern States Milkmore Eastern States Farmers' Exchange Springfield, Mass.	G. 24.00 F. 25.44	4.50 4.50	48.00 53.04	6.80 6.80	10.22	9.90 7.76
Eastern States System Eastern States Farmers' Exchange Springfield, Mass.	G. 16.00 F. 17.21	4.00 4.36	57.00 61.79	6.34 6.34	10.30	8.00 7.03

Granger 20% Dairy Ration Elmore Milling Co. Oneonta, N. Y.	G.	20.00	4.00	55.00	....	....	11.00	Wheat bran, brewers' dried grains, copra oil meal, corn meal or hominy feed, cottonseed meal, corn gluten feed, wheat middlings, cane molasses, oats, soybean oil meal, calcium carbonate, salt.
	F.	20.58	3.82	59.16	6.61	9.83	8.81	
Granger 24% Dairy Ration Elmore Milling Co. Oneonta, N. Y.	G.	24.00	4.00	45.00	....	....	10.00	Wheat bran, brewers' dried grains, corn meal or hominy feed, cottonseed meal, corn gluten feed, wheat middlings, cane molasses, oats, soybean oil meal, calcium carbonate, salt.
	F.	24.34	3.92	55.61	7.21	8.92	9.38	
Waldorf 20% Dairy Ration Elmore Milling Co. Oneonta, N. Y.	G.	20.00	4.00	50.00	....	....	11.00	Wheat bran, coconut oil meal, corn gluten feed, corn gluten meal, soybean oil meal, cottonseed meal, cane molasses, oats, wheat screenings, brewers' dried grains, calcium carbonate, salt.
	F.	18.91	4.00	61.00	6.73	9.36	11.35	
Eshelman Certified 20 Dairy Ration John W. Eshelman & Sons Lancaster, Pa.	G.	20.00	4.00	54.00	....	....	8.00	Corn gluten feed, hominy feed, oats, linseed oil meal, wheat bran, cottonseed meal, soybean oil meal, wheat middlings, distillers' corn dried grains, cane molasses, steamed bone meal, calcium carbonate, salt.
	F.	21.80	4.00	57.22	7.32	9.66	7.54	
Eshelman Conestoga 20 Dairy Feed John W. Eshelman & Sons Lancaster, Pa.	G.	20.00	4.00	55.00	....	....	11.00	Cottonseed meal, wheat bran, cane molasses, corn gluten feed, brewers' dried grains, distillers' corn dried grains, soybean oil meal, linseed meal, wheat screenings, bone meal, calcium carbonate, salt.
	F.	21.19	4.27	55.57	9.08	9.89	9.37	
Eshelman Red Rose 20 Dairy Feed John W. Eshelman & Sons Lancaster, Pa.	G.	20.00	4.00	55.00	....	....	11.00	Wheat bran, cottonseed meal, oats, corn gluten feed, cane molasses, brewers' dried grains, distillers' corn dried grains, corn meal, linseed meal, soybean oil meal, bone meal, calcium carbonate, salt.
	F.	21.01	4.23	57.32	7.80	9.64	8.19	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
Eshelman Red Rose 24 Dairy Feed John W. Eshelman & Sons Lancaster, Pa.	G. 24.00 F. 25.68	4.00 4.27	50.00 53.74	7.74	9.17	11.00 7.97
Eshelman Red Rose Feeding Ration John W. Eshelman & Sons Lancaster, Pa.	G. 17.00 F. 14.01	3.50 4.19	61.00 64.29	6.78	10.73	7.00 6.37
186 Dairy Ration Farm Service Stores Fitchburg, Mass.	G. 18.00 F. 20.66	3.50 4.93	58.00 58.88	7.53	8.00	13.06 13.26
Diamond C Dairy Farm Service Stores Fitchburg, Mass.	G. 20.00 F. 21.58	4.00 4.79	53.00 57.84	7.13	8.66	9.00 7.63
Pewman's Gold Medal Dairy Ration Farm Service Stores Fitchburg, Mass.	G. 20.00 F. 20.40	4.50 4.13	60.00 58.35	7.35	9.77	8.50 8.68
Murrell's Dairy Ration Farm Service Stores Fitchburg, Mass.	G. 20.00 F. 22.28	3.50 4.15	50.00 57.92	6.15	9.50	9.00 7.67

North Star 24% Dairy Feed Farm Service Stores Fitchburg, Mass.	G.	24.00	4.00	53.00	6.19	9.51	11.00	Corn meal, hominy, oats, soybean oil meal, brewers' dried grains, distillers' dried grains, wheat bran, mill run wheat screenings, corn gluten meal, corn gluten feed, cottonseed meal, linseed meal, molasses, calcium carbonate, barley, wheat screenings, bone meal, salt.
	F.	22.53	4.17	57.60			8.03	
Wilbur Dairy Farm Service Stores Fitchburg, Mass.	G.	20.00	5.00	55.00	6.08	10.68	9.00	Corn meal, hominy, wheat bran, mill run screenings, cottonseed meal, brewers' dried grains, molasses, linseed meal, soybean oil meal, oats, corn gluten feed, salt, calcium carbonate.
	F.	21.10	4.39	57.75			6.90	
Brookside 16 Dairy Ration First National Stores Somerville, Mass.	G.	16.00	3.50	57.00	9.33	10.51	12.00	Corn gluten meal, corn gluten feed, soybean oil meal, linseed meal, distillers' rye dried grains, oat meal mill by-products, hominy feed, screenings from wheat, barley and flax, wheat bran, cane molasses, steamed bone meal, calcium carbonate, salt.
	F.	18.56	3.37	58.23			10.92	
Brookside 20 Dairy Ration First National Stores Somerville, Mass.	G.	20.00	3.50	55.00	9.91	10.11	10.00	Distillers' corn dried grains, corn gluten feed, linseed meal, cottonseed meal, soybean oil meal, wheat bran, wheat middlings, mill run wheat screenings, corn meal, cane molasses, steamed bone meal, calcium carbonate, salt.
	F.	23.95	4.08	51.95			8.49	
Brookside 24 Dairy Ration First National Stores Somerville, Mass.	G.	24.00	4.00	52.00	9.05	9.99	10.00	Distillers' corn dried grains, corn gluten feed, linseed meal, cottonseed meal, soybean oil meal, wheat bran, wheat middlings, mill run wheat screenings, corn meal, cane molasses, steamed bone meal, calcium carbonate, salt.
	F.	25.43	4.05	51.48			8.52	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
Royal 20% Dairy Ration J. B. Garland & Son Worcester, Mass.	G. F. 26.00 23.85	4.00 5.07	50.00 56.58	6.27	8.83	11.00 9.85
Royal 24% Dairy Ration J. B. Garland & Son Worcester, Mass.	G. F. 24.00 26.18	4.60 5.18	50.00 52.68	6.79	9.17	11.00 9.57
Our Mix Dairy Ration Grafton County Feed Co. North Haverhill, N. H.	G. F. 24.00 21.58	4.50 4.29	53.00 57.84	7.26	9.03	8.00 8.88
Grandin's 20% Dairy Feed Sweetened D. H. Grandin Milling Co. Jamestown, N. Y.	G. F. 20.00 20.34	4.00 3.83	55.00 57.91	7.57	9.85	10.00 7.11
Grandin's 14% Fitting Ration D. H. Grandin Milling Co. Jamestown, N. Y.	G. F. 14.00 13.82	3.50 3.75	60.00 63.90	8.43	10.10	9.00 7.00

Soybean oil meal, corn gluten feed, distillers' dried grains, wheat bran, cottonseed meal, palm kernel meal, corn, oats, molasses, calcium carbonate, salt.

Soybean oil meal, corn meal, oats, corn gluten feed, wheat, wheat bran, distillers' dried grains, cottonseed meal, palm kernel meal, molasses, calcium carbonate, salt.

Hominy feed, wheat bran, brewers' dried grains, cottonseed meal, standard wheat middlings, corn gluten feed, soybean oil meal or linseed meal, molasses, salt, bone meal, calcium carbonate.

Cane molasses, cottonseed meal, soybean oil meal, linseed meal, distillers' corn dried grains, corn gluten feed, wheat bran, wheat middlings, mill run wheat screenings, oats, corn meal, corn feed meal, hominy feed, cottonseed hays meal, calcium carbonate, salt, potassium iodide.

Cod liver oil, cane molasses, fish meal, soybean oil meal, linseed meal, wheat bran, wheat middlings, mill run wheat screenings, yellow corn meal, hominy feed, corn feed oats, barley, steamed bone meal, calcium carbonate, salt, potassium iodide.

Grandin's Milk Maker D. H. Grandin Milling Co. Jamestown, N. Y.	G.	20.00	4.50	55.00	...	7.17	...	9.48	10.00	Dried beet pulp, cottonseed meal, soybean oil meal, linseed oil meal, corn gluten meal, corn gluten feed, distillers' corn dried grains, wheat bran, wheat middlings, mill run wheat screenings, yellow corn meal, hominy feed, oats, barley, steamed bone meal, calcium carbonate, salt, potassium iodide.
	F.	22.77	4.30	56.28	...	...	...	...	9.07	
Grandin's Twin Six Dairy Feed D. H. Grandin Milling Co. Jamestown, N. Y.	G.	22.00	4.50	55.00	...	8.76	...	9.34	10.00	Cane molasses, cottonseed meal, soybean oil meal, linseed meal, distillers' corn dried grains, corn gluten feed, wheat bran, wheat middlings, mill run wheat screenings, alfalfa meal, oats, corn meal, corn feed meal, hominy feed, steamed bone meal, calcium carbonate, salt, potassium iodide.
	F.	22.46	4.07	55.37	...	...	...	...	7.71	
M-S (Money Saver) 20% Dairy Feed .. D. H. Grandin Milling Co. Jamestown, N. Y.	G.	20.00	3.50	50.00	...	9.21	...	9.60	12.00	Cane molasses, cottonseed meal, soybean oil meal, linseed meal, corn gluten feed, distillers' corn dried grains, brewers' dried grains, wheat bran, wheat middlings, wheat screenings, corn feed meal, oats, barley, steamed bone meal, calcium carbonate, salt, potassium iodide.
	F.	20.62	3.92	56.65	...	...	...	...	8.33	
Milky Way Dairy Feed 20% Great Atlantic & Pacific Tea Co. New York, N. Y.	G.	20.00	3.50	56.00	...	10.35	...	8.88	9.00	Corn feed meal, dried grains from barley, malt and corn, wheat bran, cottonseed meal, wheat standard middlings, oats, barley, molasses, linseed meal, corn gluten meal, corn gluten feed, calcium carbonate, salt, soybean oil meal, malt sprouts.
	F.	22.07	3.65	55.05	...	...	...	...	8.73	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Moi- sture	Crude Fiber	
Milky Way Dairy Feed 24% Great Atlantic & Pacific Tea Co. New York, N. Y.	G. 24.00 F. 24.73	3.50 3.50	52.00 52.27	... 9.47	... 10.03	9.00 7.54	Corn feed meal, dried grains from barley, malt and corn, wheat bran, cottonseed meal, wheat standard middlings, oats, barley, molasses, linseed meal, corn gluten meal, corn gluten feed, calcium carbonate, salt, soybean oil meal, malt sprouts.
20% Open Formula Dairy Feed E. C. & W. L. Hopkins Greenfield, N. H.	G. 20.00 F. 20.71	4.00 4.09	53.00 57.59	... 8.12	... 9.49	12.00 11.74	Distillers' corn dried grains, oat feed, yellow hominy feed, cottonseed meal, cane molasses, corn gluten feed, soybean oil meal, wheat bran, calcium carbonate, salt.
Granite State 20% Dairy Feed E. C. & W. L. Hopkins Greenfield, N. H.	G. 20.00 F. 22.28	4.00 4.54	50.00 56.95	... 6.88	... 9.35	11.00 8.89	Corn meal, corn gluten feed, cottonseed meal, linseed meal, malt grain, wheat bran, soybean oil meal, distillers' dried grains, molasses, bone meal, oyster shell meal, kelp, oats, salt.
Granite State 24% Dairy Feed E. C. & W. L. Hopkins Greenfield, N. H.	G. 24.00 F. 25.22	4.00 4.00	48.00 52.54	... 8.43	... 9.81	10.00 8.87	Corn gluten feed, corn meal or hominy, linseed meal, wheat bran, cottonseed meal, malt grains, molasses, barley, oats, distillers' grains, soybean meal, bone meal, calcium carbonate, kelp.
Granite State Fitting Ration E. C. & W. L. Hopkins Greenfield, N. H.	G. 12.00 F. 15.10	3.50 4.05	54.00 62.60	... 6.79	... 11.46	8.00 6.35	Wheat bran, wheat middlings, corn meal, hominy, molasses, oats, linseed meal, soybean oil meal, calcium carbonate, kelp.
P and Q 20% Dairy E. C. & W. L. Hopkins Greenfield, N. H.	G. 20.00 F. 20.79	3.50 3.45	50.00 56.36	... 9.57	... 9.83	11.00 10.94	Wheat bran, wheat middlings, corn gluten meal, distillers' dried grain, soybean oil meal, cottonseed meal, oat feed, calcium carbonate, salt, molasses.

Swain's Dairy Feed E. C. & W. L. Hopkins Greenfield, N. H.	G. F.	20.00 21.84	4.00 4.01	55.00 57.28	6.70	10.17	9.00 8.96	Linseed meal, cottonseed meal, corn meal, corn gluten meal, oats, wheat bran, dried beet pulp, calcium carbonate, salt.
Hubbard's Sunshine Concentrate Hubbard Milling Co. Mankato, Minn.	G. F.	32.00 31.42	5.00 4.13	40.00 42.05	13.48	8.87	7.00 6.23	Copra oil meal, peanut oil meal, dried bitter-milk, cod liver meal, soybean oil meal, wheat germ meal, fish meal, linseed meal, wheat flour middlings, alfalfa leaf meal, cottonseed meal, bone meal, potassium iodide, iron oxide, copper sulphate, manganese sulphate, sodium bicarbonate, calcium carbonate, salt.
Johnson's Dairy Feed Ralph P. Johnson & Son Potter Place, N. H.	G. F.	16.00 22.77	3.00 3.92	56.00 55.66	7.72	9.93	9.00 6.74	Corn meal, linseed meal, cottonseed meal, oats, wheat bran, corn gluten feed, salt.
Apex 20% Dairy Ration Kasco Mills Waverly, N. Y.	G. F.	20.00 22.20	3.50 3.32	50.00 56.70	8.34	9.44	12.00 9.24	Soybean oil meal, cottonseed meal, corn gluten feed, corn gluten meal, wheat bran, wheat screenings, oat mill feed, malt sprouts, brewers' dried grains, distillers' corn dried grains, cane molasses, salt, calcite.
Beatsall Milk Grains Kasco Mills Waverly, N. Y.	G. F.	22.00 23.73	4.00 3.37	50.00 55.39	8.06	9.45	10.00 6.85	Wheat bran, wheat middlings, linseed meal, corn gluten feed, cottonseed meal, soybean oil meal, hominy feed, salt, calcite, beet pulp, molasses, corn gluten meal, distillers' corn dried grains.
Kasco Fitting Ration Kasco Mills Waverly, N. Y.	G. F.	14.00 16.20	4.00 3.86	55.00 62.38	6.61	10.95	8.00 6.91	Wheat bran, corn feed meal, hominy feed, barley, oats, linseed meal, soybean oil meal, cane molasses, bone meal, salt, calcite.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Kasco Open Formula 20% Dairy Ration Kasco Mills Waverly, N. Y.	G. 20.00 F. 21.84	3.50 4.02	50.00 56.79	8.33	9.02	10.00 7.91	Wheat bran, wheat middlings, hominy feed, barley oats, malt sprouts, brewers' dried grains, distillers' corn dried grains, corn gluten feed, soybean oil meal, cottonseed meal, cane molasses, salt, calcite.
Kasco Sweet 16% Dairy Feed Kasco Mills Waverly, N. Y.	G. 16.00 F. 19.96	3.50 3.17	50.00 59.41	8.51	8.95	12.00 10.65	Wheat bran, corn gluten feed, corn gluten meal, cottonseed meal, soybean oil meal, oats, barley, wheat screenings, corn meal, oat mill feed, malt sprouts, brewers' dried grains, distillers' corn dried grains, molasses, salt, calcite.
Larrowe's 16 Dairy Feed Larrowe Milling Co. Detroit, Mich.	G. 16.00 F. 17.77	3.00 3.73	63.00 63.20	5.83	9.47	11.00 10.59	Cottonseed meal, corn gluten feed, distillers' corn dried grains, wheat standard middlings, linseed meal, yellow corn meal, dried beet pulp, wheat bran, salt.
Larrowe's Ready Ration Larrowe Milling Co. Detroit, Mich.	G. 20.00 F. 21.36	3.75 3.77	57.00 59.85	6.54	8.48	12.00 10.31	Cottonseed meal, yellow corn meal, wheat standard middlings, soybean oil meal, linseed meal, corn gluten feed, distillers' corn dried grains, dried beet pulp, wheat bran, limestone, salt.
R. B. Hi-Test Dairy Feed Maritime Milling Co. Buffalo, N. Y.	G. 20.00 F. 20.05	4.00 4.32	50.00 56.47	8.54	10.63	12.00 10.39	Brewers' dried grains, cottonseed meal, corn gluten feed, soybean oil meal, hominy feed, oats, corn meal, grain screenings from wheat, corn, oats and barley, wheat bran, molasses, steamed bone meal, calcium carbonate, salt.
Bull Brand 20 Dairy Ration Maritime Milling Co. Buffalo, N. Y.	G. 20.00 F. 21.71	4.00 3.10	55.00 56.30	8.41	10.48	9.00 8.59	Brewers' dried grains, cottonseed meal, corn gluten feed, soybean oil meal, linseed meal, hominy feed, corn meal, wheat bran, wheat middlings, mill run screenings, molasses, steamed bone meal, calcium carbonate, salt, potassium biphosphate.

Bull Brand 24 Dairy Ration Sweetened Maritime Milling Co. Buffalo, N. Y.	G.	24.00	4.00	50.00	7.50	....	9.90	Brewers' dried grains, cottonseed meal, corn gluten feed, soybean oil meal, linseed meal, hominy feed, corn meal, wheat bran, middlings, mill run screenings, molasses, steamed bone meal, calcium carbonate, potassium iodide, salt.
	F.	23.33	3.76	54.97	....	10.39	8.63	
Bull Brand Dry and Freshening Cow Feed Maritime Milling Co. Buffalo, N. Y.	G.	13.00	4.00	65.00	9.73	....	9.09	Dried beet pulp, hominy feed, alfalfa meal, soybean oil meal, crushed oats, wheat bran, mill run screenings, linseed meal, corn gluten feed, molasses, steamed bone meal, calcium carbonate, potassium iodide, salt.
	F.	11.71	2.87	63.62	....	12.07	8.31	
Hi-Test Dairy Feed 24% Sweetened Maritime Milling Co. Buffalo, N. Y.	G.	24.00	4.00	58.00	8.27	....	12.00	Brewers' dried grains, cottonseed meal, corn gluten feed, soybean oil meal, hominy feed, corn meal, oats, grain screenings from wheat, corn oats and barley, wheat bran, molasses, steamed bone meal, calcium carbonate, salt.
	F.	23.38	4.36	54.03	....	9.96	10.67	
Marmico 16% Dairy Feed Maritime Milling Co. Buffalo, N. Y.	G.	16.00	4.00	58.00	9.90	....	12.00	Brewers' dried grains, soybean oil meal, cottonseed meal, corn gluten feed, corn meal, grain screenings from wheat, corn, oats and barley, wheat bran, molasses, steamed bone meal, calcium carbonate, salt.
	F.	15.61	3.38	60.32	....	10.79	12.18	
Meadow Sweet Supplemental Dairy Feed Maritime Milling Co. Buffalo, N. Y.	G.	12.00	2.50	58.00	8.08	....	15.00	Brewers' dried grains, molasses, beet pulp, corn meal, wheat bran, alfalfa meal, grain screenings from wheat, corn, oats and barley, steamed bone meal, calcium carbonate, salt.
	F.	13.44	3.44	64.24	....	10.80	13.31	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
Merrimack Dairy Ration	G. 20.00	4.50	50.00	...	...	10.00
Merrimack Farmers' Exchange	F. 20.62	4.34	57.29	8.69	9.06	7.72
Concord, N. H.						
Merrimack Farmers' Dairy Ration	G. 20.00	4.00	55.00	...	...	11.00
Merrimack Farmers' Exchange	F. 20.70	3.52	58.70	8.38	8.70	11.50
Concord, N. H.						
Merrimack Fitting Ration	G. 14.00	4.50	60.00	...	...	8.00
Merrimack Farmers' Exchange	F. 13.47	3.97	64.17	6.90	11.49	5.93
Concord, N. H.						
Merrimack Sweetened Milk Ration	G. 20.00	4.00	53.00	...	...	8.50
Merrimack Farmers' Exchange	F. 21.14	3.86	57.16	8.45	9.39	7.64
Concord, N. H.						
New England Yankee 20 Dairy Ration ..	G. 20.00	4.00	50.00	...	...	12.00
New England Retail Grain Dealers' ..	F. 23.25	4.43	55.07	7.37	9.88	10.47
Cooperative Association						
Springfield, Mass.						
Bidwell 20% Dairy Ration	G. 20.00	3.50	58.00	...	...	12.00
Park & Pollard Co.	F. 20.53	3.54	56.11	9.60	10.22	10.39
Boston, Mass.						

Doublex 16% Dairy Ration Park & Pollard Co. Boston, Mass.	G.	16.00	3.50	45.00	....	....	11.00	Corn distillers' grains, oats, barley, brewers' dried grains, malt sprouts, linseed meal, cottonseed meal, grain screenings from wheat, oats, barley, buckwheat and milo, soybean oil meal, corn gluten feed, molasses, calcium carbonate, salt.
	F.	19.26	3.74	59.71	8.26	9.03	10.26	
Doublex 20% Dairy Ration Park & Pollard Co. Boston, Mass.	G.	20.00	3.50	50.00	....	....	11.00	Linseed meal, corn gluten feed, oats, corn gluten meal, soybean oil meal, corn distillers' grains, barley, wheat bran, malt sprouts, cottonseed meal, grain screenings from wheat, oats, barley, buckwheat and milo, molasses, calcium carbonate, salt.
	F.	19.38	4.06	59.13	6.94	10.49	8.94	
Doublex 24% Dairy Ration Park & Pollard Co. Boston, Mass.	G.	24.00	3.50	55.00	....	....	11.00	Wheat bran, linseed meal, soybean oil meal, oats, malt sprouts, corn gluten meal, cottonseed meal, corn gluten feed, grain screenings from wheat, oats, barley, buckwheat and milo, molasses, calcium carbonate, salt.
	F.	23.09	3.67	54.21	9.53	9.50	8.83	
Milkmaid 20% Dairy Ration Park & Pollard Co. Buffalo, N. Y.	G.	20.00	4.00	55.00	....	....	10.00	Corn gluten feed, linseed meal, cottonseed meal, barley, distillers' corn dried grains, soybean oil meal, oats, wheat bran, brewers' dried grains, malt sprouts, corn gluten meal, corn meal, cane molasses, calcium carbonate, salt.
	F.	21.32	3.48	57.60	7.60	9.91	7.61	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Milkmaid 24% Sweetened Dairy Ration Park & Pollard Co. Boston, Mass.	G. 24.00	4.00	50.00	...	...	10.06	Corn gluten feed, linseed meal, cottonseed meal, barley, distillers' corn dried grains, soybean oil meal, wheat bran, brewers' dried grains, malt sprouts, corn gluten meal, corn meal, molasses, calcium carbonate, salt.
	F. 26.79	3.80	52.00	7.53	9.88	7.11	
Park & Pollard 32% Mixing Ration Park & Pollard Co. Boston, Mass.	G. 32.00	4.00	40.00	...	...	9.06	Linseed meal, cottonseed meal, wheat bran, corn gluten feed, soybean oil meal, corn gluten meal, malt sprouts, fish meal, molasses, calcium carbonate, salt.
	F. 29.57	3.94	49.16	8.83	8.50	9.80	
Park & Pollard Mananar Fitting Ration Park & Pollard Co. Boston, Mass.	G. 12.00	3.50	55.00	...	...	7.00	Kelp, fish meal, sea shells, linseed meal, oats, corn meal, wheat bran, molasses, calcium carbonate, cracked corn, crushed oats, salt.
	F. 12.52	2.81	64.58	8.26	11.80	6.46	
Protina 20% Dairy Feed Purina Mills St. Louis, Mo.	G. 20.00	3.50	50.00	...	...	12.00	Linseed meal, soybean oil meal, cottonseed meal, corn gluten feed, wheat middlings, alfalfa meal, wheat bran, grain sorghums, from wheat, corn, oats, barley and kaffir, molasses, calcium carbonate, iodized salt.
	F. 23.07	4.70	53.99	9.53	9.21	9.54	
Purina Dry and Freshening Cow Chow Purina Mills St. Louis, Mo.	G. 12.50	2.50	59.00	...	...	14.00	Carotene, soybean oil meal, corn gluten meal, oats, dried beet pulp, corn meal, alfalfa meal, wheat middlings, wheat bran, molasses, calcium carbonate, iodized salt.
	F. 14.71	2.72	62.22	9.70	10.65	11.46	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs					Crude Fiber	Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture		
Hygrade 10 Milk Ration Sweetened St. Albans Grain Co. St. Albans, Vt.	G. 16.00	3.50	60.00	7.88	9.54	8.50	Linseed meal, soybean oil meal, brewers' dried grains, corn gluten feed, corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, cane molasses, calcium carbonate, salt.
	F. 17.50	4.09	60.93			6.37	
Hygrade 20 Milk Ration Sweetened St. Albans Grain Co. St. Albans, Vt.	G. 16.00	3.50	54.00	8.43	9.17	8.50	Linseed meal, soybean oil meal, cottonseed meal, brewers' dried grains, corn gluten feed, corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, cane molasses, calcium carbonate, salt.
	F. 22.02	3.54	50.84			6.37	
Hygrade 24 Milk Ration Sweetened St. Albans Grain Co. St. Albans, Vt.	G. 24.00	3.30	50.00	22.34	9.12	9.60	Corn gluten meal, corn gluten feed, linseed meal, soybean oil meal, cottonseed meal, brewers' dried grains, corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, calcium carbonate, salt, cane molasses.
	F. 24.91	3.73	53.90			7.03	
Utility 20 Dairy Ration St. Albans Grain Co. St. Albans, Vt.	G. 20.00	3.50	56.00	13.53	9.40	12.00	Linseed meal, soybean oil meal, corn gluten feed, cottonseed meal, corn meal, hominy feed, oats, barley, brewers' dried grains, oat meal, brewers' dried grains, wheat bran, wheat middlings, calcium carbonate, cane molasses, salt.
	F. 20.44	3.33	54.30			9.7	
Wardmore 14 Fattening Ration St. Albans Grain Co. St. Albans, Vt.	G. 14.00	4.00	65.00	6.77	10.77	7.00	Cod liver oil, linseed meal, oats, barley, yellow corn meal, hominy feed, wheat bran, wheat middlings, cane molasses, fish meal, bone meal, salt.
	F. 15.41	4.35	62.70			6.14	

Wirthmore 20 Dairy Ration Sweetened .. St. Albans Grain Co. St. Albans, Vt.	G.	20.00	4.50	59.00	....	....	8.00	Corn gluten meal, distillers' corn dried grains, linseed meal, soybean oil meal, cottonseed meal, corn gluten feed, yellow corn meal, oats, barley, wheat middlings, wheat bran, bone meal, cane molasses, salt.
	F.	22.94	5.01	56.67	5.64	9.74	7.27	
Wirthmore 25 Balanced Ration Sweetened .. St. Albans Grain Co. St. Albans, Vt.	G.	25.00	4.50	55.00	....	....	8.50	Corn gluten meal, distillers' corn dried grains, linseed meal, soybean oil meal, barley, oats, cottonseed meal, corn gluten feed, yellow corn meal, wheat middlings, wheat bran, bone meal, cane molasses, salt.
	F.	26.05	4.71	52.84	6.56	9.84	7.47	
Wirthmore 32% Ration .. St. Albans Grain Co. St. Albans, Vt.	G.	32.00	4.00	45.00	....	....	8.00	Corn gluten meal, corn gluten feed, distillers' dried grains, soybean oil meal, linseed meal, cottonseed meal, wheat bran, cane molasses, calcium carbonate, bone meal, salt.
	F.	33.27	4.86	44.35	9.58	7.94	7.61	
Wirthmore Record Ration .. St. Albans Grain Co. St. Albans, Vt.	G.	20.00	4.50	55.00	....	....	8.50	Linseed meal, soybean oil meal, corn gluten meal, distillers' corn dried grains, yellow corn meal, hominy feed, oats, dried beet pulp, wheat bran, wheat middlings, cane molasses, fish meal, bone meal, salt.
	F.	21.40	4.37	58.39	6.11	9.73	7.57	
Spaulding's Dairy Feed .. F. B. Spaulding Co. Lancaster, N. H.	G.	20.00	4.00	55.00	....	....	9.50	Linseed meal, soybean oil meal, cottonseed meal, corn gluten feed, corn meal, hominy feed, wheat bran, mill run wheat screenings, distillers' rye dried grains, rye feed, salt, calcium carbonate, molasses.
	F.	21.84	3.65	58.42	6.58	9.51	7.74	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Stratton's White Clover 20% Dairy Feed Stratton & Co. Concord, N. H.	G. 20.00 F. 21.01	4.00 3.49	50.00 56.55	... 8.65	... 10.30	11.00 8.05	Wheat bran, linseed meal, oat hulls, oat shorts, oat middlings, corn gluten feed, barley, cottonseed meal, grain screenings, molasses, calcium carbonate, salt.
	G. 20.00 F. 20.00	4.00 3.92	55.00 58.51	... 7.08	... 10.49	10.50 9.49	Beet pulp, soybean oil meal, linseed meal, cottonseed meal, corn gluten feed, oats, corn meal, wheat bran, bone meal, molasses, salt.
Linfield, Pa.	G. 16.00 F. 16.11	3.50 3.12	55.00 62.70	... 7.49	... 10.58	11.50 8.89	Linseed meal, corn gluten feed, cottonseed meal, wheat bran, malt sprouts, soybean oil meal, grain screenings, cane molasses, distillers' grains, bone meal, oats, salt, calcium carbonate.
	G. 24.00 F. 24.12	4.50 4.69	53.00 56.21	... 6.32	... 8.66	9.00 9.56	Cottonseed meal, soybean oil meal, corn oil meal, malt sprouts, corn gluten meal, oat feed, wheat bran, hominy feed, peanut skins, germs and meal, linseed meal, brewers' dried grains, cane molasses.
Blue Seal Special 20% Dairy Ration H. K. Webster Co. Lawrence, Mass.	G. 20.00 F. 20.58	4.50 4.81	55.00 58.15	... 7.20	... 9.26	10.00 11.35	Cottonseed meal, soybean oil meal, corn oil meal, malt sprouts, corn gluten feed, oat feed, wheat bran, hominy feed, peanut skins, germs and meal, linseed meal, brewers' dried grains, distillers' corn dried grains, cane molasses.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Glenn, Corb. Glucose Feed Glenn, O. Chicago, Ill.	G. 25.00 F. 27.71	2.00 3.30	57.00 53.76	 6.31	 8.72	8.50	
Buffalo Corb. Glucose Feed Corn Products Refining Co. New York, N. Y.	G. 25.00 F. 30.75	1.00 3.39	50.00 54.99	 6.79	 9.08	8.50	
Staley, Corb. Glucose Feed A. E. Staley Mfg. Co. Decatur, Ill.	G. 25.00 F. 30.33	1.00 1.62	53.00 55.36	 6.34	 8.55	8.00	
Staley, Corb. Glucose Feed Sweetened A. E. Staley Mfg. Co. Decatur, Ill.	G. 20.00 F. 28.92	1.00 1.67	50.00 57.00	 6.95	 8.46	7.00	Corn gluten feed, cane molasses.
GLUTEN MEAL, CORN							
Amalgam Glucose Meal Amalgam Mfg. Products Co. Chicago, Ill.	G. 40.00 F. 42.63	1.00 3.55	49.00 43.86	 3.50	 7.49	4.00	
Diamond Corb. Glucose Meal Corn Products Refining Co. New York, N. Y.	G. 43.00 F. 44.29	1.00 3.87	42.00 43.18	 1.46	 7.29	4.00	
HOMINY FEED							
White Hominy Feed Kemper Co. Burlington, Wis.	G. 10.00 F. 10.11	6.00 5.58	65.00 73.30	 2.37	 8.35	5.00 3.50	
Moose Hominy Feed George Q. Moon & Co. Binghamton, N. Y.	G. 10.00 F. 9.91	5.00 7.85	65.00 71.02	 2.40	 8.82	6.00 5.07	

HORSE FEED		G.	F.	3.00	58.00	1.94	10.28	8.00	Cracked corn, crimped oats, wheat bran, cane molasses.
Wayne Horse Feed	Alfred Mills	G.	F.	3.18	74.35	.....	.....	5.70	
Chicago, Ill.									
Barco Horse Feed	G. N. Bartemus Co.	G.	F.	3.50	60.00	.....	.....	5.00	Crimped oats, cracked corn, wheat bran, linseed meal, salt, molasses.
Concord, N. H.				3.60	69.44	3.85	12.26	5.54	
Eastern States Horse Feed	Eastern States Farmers' Exchange	G.	F.	3.00	63.00	.....	.....	7.00	Crimped oats, yellow cracked corn, wheat bran, cane molasses, linseed meal, dicalcium phosphate, salt.
Springfield, Mass.				3.37	67.90	5.34	12.84	5.59	
E.M.C.O. Horse Feed	Elmore Milling Co.	G.	F.	2.50	55.00	.....	.....	11.00	Alfalfa meal, cracked corn, crimped oats, wheat bran, cane molasses, salt.
Oneonta, N. Y.				3.44	69.97	4.27	11.99	7.67	
Garland Horse Feed	J. B. Garland & Son	G.	F.	3.00	60.00	.....	.....	9.00	Cracked corn, crimped oats, linseed meal, wheat bran, molasses, salt.
Worcester, Mass.				3.74	69.69	3.56	11.63	5.97	
Granite State Horse Feed	E. C. & W. L. Hopkins	G.	F.	4.00	65.00	.....	.....	8.00	Crimped oats, wheat bran, cracked corn, linseed meal, cane molasses, salt.
Greenfield, N. H.				4.01	63.19	8.96	11.06	6.24	
Parina Omolene	Parina Mills	G.	F.	3.20	67.00	.....	.....	11.00	Crushed oats, cracked corn, alfalfa leaf meal, linseed meal, soybean oil meal, molasses, wheat bran, calcium carbonate, iodized salt.
St. Louis, Mo.				3.84	69.59	4.58	10.17	6.37	
Hygrade Horse Feed	St. Albans Grain Co.	G.	F.	3.25	65.00	.....	.....	9.00	Crushed oats, cracked yellow corn, linseed meal, wheat bran, alfalfa meal, cane molasses, salt.
St. Albans, Vt.				3.70	68.38	5.89	11.26	6.16	
Wardmore Horse Feed	St. Albans Grain Co.	G.	F.	3.25	65.00	.....	.....	9.00	Oats, cracked yellow corn, linseed meal, alfalfa meal, cane molasses, salt.
St. Albans, Vt.				3.70	71.37	2.94	11.05	6.81	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff's					Crude Fiber	Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture		
Linseed, Hurm Feed Jacob Trimley & Sons Linfild, Pa.	G. 8.01 F. 8.01	1.30 1.79	65.96 75.10	6.63	8.47	12.10 10.39	Cracked corn, out hulls, out clips, molasses, salt.
Kelp Kelco Meal Kelco Co. New York, N. Y.	G. 3.00 F. 5.17	0.10 0.31	40.00 47.91	38.08	8.53	10.00 7.00	
LINSEED MEAL Tapa Value Old Process Linseed Meal Archer-Daniels Midland Co. Minneapolis, Minn.	G. 32.00 F. 33.36	4.53 4.77	35.00 46.65	6.30	8.92	9.00	
K & M Brand 32% Old Process Linseed Meal Bisbee Linseed Co. Amsterdam, N. Y.	G. 32.00 F. 34.02	5.03 5.91	40.00 45.34	5.97	8.76	10.00	
Kellogg's Old Process Linseed Meal Spencer Kellogg & Sons Buffalo, N. Y.	G. 32.00 F. 32.84	4.50 5.40	43.00 46.34	5.97	9.45	9.00 ...	
Sherwin-Williams Pure Old Process 32% Linseed Meal Sherwin-Williams Co. Cleveland, O.	G. 32.00 F. 36.12	4.50 5.26	45.00 45.21	5.31	8.10	9.00 ..	
MEAT SCRAPS Corenco 50% Meat and Bone Scrap Cleveland Rendering Co. Boston, Mass.	G. 50.70 F. 50.70	6.00 8.42	.... ....	31.37	6.75	.... ....	
Extraday Brand Meat and Bone Scrap Independent Tallow Co. Woburn, Mass.	G. 50.00 F. 50.70	6.00 10.85	.... ....	28.21	5.31	.... ....	

Cumberland Brand Meat Scrap John Kern & Son Portland, Me.	G. F.	40.00 40.10	8.00 8.46	..... .....	46.33	5.11 .....	..... .....
Morse's 45% Meat Scraps James F. Morse & Co. Somerville, Mass.	G. F.	45.00 45.09	8.00 8.48	..... .....	36.01	6.05 .....	..... .....
Meat and Bone Scrap, Register Brand 50% Protein John Reardon & Sons Cambridge, Mass.	G. F.	50.00 48.13	6.00 12.57	..... .....	32.10	4.76 .....	..... .....
Meat Scrap Register Brand John Reardon & Sons Cambridge, Mass.	G. F.	55.00 55.21	6.00 11.49	..... .....	26.79	5.16 .....	..... .....
MILK, DRIED SKIMMED							
Buell-Boston Dried Skim Milk B & B Dairy Co. Margaretville, N. Y.	G. F.	33.00 34.15	0.20 0.71	52.35	8.01	4.78 .....	..... .....
Supreme Brand Dried Skim Milk Herbert K. Clifton Philadelphia, Pa.	G. F.	32.00 33.10	0.25 0.69	53.32	8.09	4.80 .....	..... .....
Dairyland Dried Skim Milk Dairymen's League Cooperative Association Utica, N. Y.	G. F.	33.00 33.58	0.50 0.78	52.31	8.40	4.93 .....	..... .....
Dried Skim Milk United Farmers' Cooperative Creamery Association Morrisville, Vt.	G. F.	32.00 36.25	0.50 0.76	 49.71	 8.49	 4.79	..... ...
Ward's Pure Dried Skim Milk Ward Dry Milk Co. St. Paul, Minn.	G. F.	32.00 30.69	1.00 4.46	40.00 50.57	9.31	4.97 .....	..... .....

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
OAT MEAL							
Feeding Oat Meal	G. 14.00	5.00	71.00	...	...	4.00	Oat groats, oat flour, oat middlings.
Farbous' Service Bureau Baltimore, Md.	F. 15.15	6.67	63.24	4.74	10.20	....	
Pulverized Oats	G. 12.00	3.00	...	...	...	12.00	Oat middlings, oat groats.
Farmers' Service Bureau Baltimore, Md.	F. 10.99	3.50	73.92	4.31	7.28	14.31	
Red 3 Feeding Oat Meal	G. 14.50	5.00	60.00	...	...	3.70	Oat middlings, oat groats.
National Oats Co. East St. Louis, Ill.	F. 16.22	6.03	66.90	2.16	8.69	2.68	
Chief Feeding Oat Meal	G. 14.00	5.30	60.00	...	...	3.75	Oat middlings, oat groats.
Purity Oats Co. Keokuk, Iowa	F. 15.28	7.17	67.37	2.23	7.95	3.87	
Pulverized Oats	G. 12.00	4.50	69.00	...	...	12.00	Oat hulls, oat shorts, oat middlings.
Purity Oats Co. Keokuk, Iowa	F. 13.04	4.60	70.36	4.06	7.94	11.07	
OAT MILL FEED							
Fruen's Oat Mill Feed	G. 6.00	2.00	...	...	...	26.00	Oat meal by-product, oat middlings, oat shorts, oat hulls.
Fruen Milling Co. Minneapolis, Minn.	F. 4.99	1.38	79.74	6.57	7.32	28.39	
Oat Mill Feed	G. 6.00	1.50	77.00	...	...	28.00	Oat meal mill by-product, oat middlings, oat shorts, oat hulls.
Hecker Products Corp. Buffalo, N. Y.	F. 6.08	1.97	76.82	6.85	8.28	26.51	
Reground Oat Feed	G. 3.50	1.25	...	...	...	35.00	Oat meal mill by-product, oat middlings, oat shorts, oat hulls.
Northern Illinois Cereal Co. Lockport, Ill.	F. 3.63	0.99	82.81	7.84	4.73	....	
Peterborough Oat Feed	G. 4.00	1.50	79.00	...	...	32.00	Oat mill feed.
Quaker Oats Co. Peterborough, Ont.	F. 6.04	1.69	80.22	6.97	5.08	....	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Eshelman Red Rose Pig and Hog Meal .. John W. Eshelman & Sons .. Lawrence, Pa.	G. 16.00	5.00	55.00	....	....	10.00	Wheat middlings, corn feed meal, digester tankage, soybean oil meal, wheat bran, bone meal, fish meal, linseed meal, charcoal, wheat screenings, calcium carbonate, salt.
	F. 19.79	5.00	56.85	8.44	9.92	7.88	
Greene State Hog Ration .. E. C. & W. L. Hopkins .. Greenville, N. H.	G. 18.00	5.00	50.00	....	....	7.00	Corn meal, meat scraps, wheat red dog, standard wheat middlings, fish meal, soybean oil meal, alfalfa meal, kelp, calcium carbonate, charcoal.
	F. 19.17	4.84	58.94	6.00	11.05	8.04	
Lafayette Pig Ration .. Garrows Milling Co. Detroit, Mich.	G. 17.50	4.00	56.50	....	....	7.50	Wheat bran, yellow corn meal, wheat standard middlings, fish meal, meat and bone scraps, soybean oil meal, alfalfa meal, dried beet pulp, limestone, salt, linseed meal.
	F. 18.56	4.09	59.18	7.86	10.31	6.55	
B-B Pig and Hog Feed .. Maritime Milling Co. Buffalo, N. Y.	G. 14.00	3.50	55.00	....	....	9.00	Digester tankage, alfalfa meal, wheat middlings, mill run screenings, linseed meal, soybean oil meal, corn meal, barley, oats, wheat red dog flour, molasses, steamed bone meal, charcoal, calcium carbonate, salt, potassium iodide.
	F. 14.23	3.32	63.18	8.26	11.01	8.51	
Merrimack Pig Ration .. Merrimack Farm Ex. Sta. Concord, N. H.	G. 17.00	5.00	55.00	....	....	7.00	Wheat middlings, wheat bran, wheat red dog, hominy feed, corn meal, meat scraps, fish meal, salt, calcium carbonate, charcoal, cod liver oil.
	F. 18.60	5.71	55.27	10.28	10.14	5.48	

Purina Pig Growers Purina Mills St. Louis, Mo.	G. F.	14.00 16.29	2.00 3.68	60.00 63.76	5.69	10.58	8.00 7.01	Tankage, linseed meal, alfalfa meal, barley, wheat middlings, corn meal, molasses, iodized salt.
Reel Hog Feed Jacob Trinkle & Sons Linfield, Pa.	G. F.	18.00 22.59	4.00 5.23	55.00 51.56	11.75	8.87	10.00 9.42	Corn meal, oats, wheat middlings, corn gluten feed, linseed meal, alfalfa meal, bone meal, soybean oil meal, tankage, molasses, charcoal, salt.
Whiting Hog Ration D. Whiting & Sons Wilton, N. H.	G. F.	14.00 16.77	4.50 4.97	58.00 60.61	7.49	10.16	7.00 9.00	Wheat bran, wheat middlings, hominy, alfalfa leaf meal, calcium carbonate, fish meal, charcoal.
POULTRY FEED								
Wayne 26% Mash Supplement Allied Mills Chicago, Ill.	G. F.	26.00 38.63	4.00 5.12	43.00 41.80	15.04	9.41	10.00 8.00	Dried buttermilk, dried skimmed milk, liver meal, meat scraps, fish meal, wheat standard middlings, peanut oil meal, wheat bran, corn gluten meal, corn gluten feed, alfalfa meal, soybean oil meal, limestone, iron oxide, potassium iodide, salt, sardine oil.
Wayne All Mash Laying Ration Allied Mills Chicago, Ill.	G. F.	15.00 16.55	4.00 4.28	58.00 61.04	7.53	10.60	8.00 6.72	Fish meal, meat scraps, animal liver meal, soybean oil meal, corn meal, corn gluten meal, oats, wheat standard middlings, wheat bran, alfalfa meal, corn gluten feed, dried skimmed milk, dried buttermilk, sardine oil, limestone, iron oxide, potassium iodide, manganese sulphate, salt.

Brand and Manufacturer	Pounds in 100 lbs of Feeding Stuff's						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Wayne Chick Starter Allied Mills Chicago, Ill.	G. 17.00 F. 17.85	4.00 4.29	55.00 58.79	8.66	11.00	7.00 5.54	Dried buttermilk, dried skimmed milk, animal liver meal, meat scraps, fish meal, wheat standard middlings, corn meal, corn gluten meal, oats, alfalfa meal, soybean oil meal, wheat bran, limestone, iron oxide, potassium iodide, manganese sulphate, salt, sardine oil.
	G. 18.00 F. 19.00	4.50 4.90	54.00 56.38	9.62	10.10	7.00 6.72	Dried buttermilk, dried skimmed milk, liver meal, meat scraps, fish meal, wheat standard middlings, wheat bran, corn meal, oat meal, corn gluten feed, alfalfa meal, soybean oil meal, limestone, iron oxide, potassium iodide, salt, sardine oil.
Wayne Growing Mash with Sardine Oil Allied Mills Chicago, Ill.	G. 16.00 F. 18.89	4.00 5.11	56.00 58.14	8.25	10.13	6.00 6.46	Dried buttermilk, dried skimmed milk, liver meal, meat scraps, fish meal, wheat standard middlings, corn meal, oat meal, alfalfa meal, soybean oil meal, wheat bran, limestone, iron oxide, potassium iodide, salt, sardine oil.
	G. 32.00 F. 38.70	4.00 5.80	33.00 30.97	17.69	6.84	8.00 6.73	Dried buttermilk, dried skimmed milk, liver meal, fish meal, peanut oil meal, meat scraps, soybean oil meal, corn gluten meal, corn gluten feed, alfalfa meal, limestone, iron oxide, potassium iodide, salt, sardine oil.

Pennant Brand Growing Feed E. W. Bailey & Co. Montpelier, Vt.	G.	15.00	5.00	50.00	....	....	5.00	Wheat bran, yellow corn meal, wheat red dog flour, oat groats, dried skimmed milk, meat scraps, charcoal, bone meal, alfalfa leaf meal, salt, calcium carbonate, locust bean meal, anise, crushed flaxseed, dried milk albumen, codfish meal, blood flour, cocoa, fenugreek, potassium iodide, rice polish, soybean oil cake meal, linseed meal, cocoanut oil cake meal, cod liver meal, cod liver oil.
	F.	15.11	4.24	60.87	9.00	10.78	6.45	
Pennant Brand Laying Mash E. W. Bailey & Co. Montpelier, Vt.	G.	20.00	5.00	50.00	....	....	6.00	Wheat red dog flour, yellow corn meal, oats, oat groats, meat scraps, wheat bran, wheat standard middlings, corn gluten feed, alfalfa leaf meal, dried skimmed milk, salt, calcium carbonate, locust bean meal, bran meal, anise seed, crushed flaxseed, dried milk albumen, codfish meal, blood flour, cocoa, fenugreek seed, potassium iodide, rice polish, soybean oil meal, cod liver oil, cod liver meal.
	F.	21.76	4.66	52.98	10.37	10.23	5.03	
Barco All Purpose Mash G. N. Bartemus Co. Concord, N. H.	G.	18.00	4.00	51.00	....	....	6.80	Oats, wheat, corn meal, wheat bran, soybean oil meal, oat groats, alfalfa leaf meal, meat scraps, fish meal, dried skimmed milk, calcium carbonate, bone meal, salt, cod liver oil.
	F.	18.00	3.71	55.26	12.36	10.64	4.57	
Barco Laying Mash G. N. Bartemus Co. Concord, N. H.	G.	20.00	5.00	50.00	....	....	6.00	Oats, hominy, meat scraps, wheat red dog, wheat bran, corn gluten feed, alfalfa leaf meal, dried skimmed milk, salt, feeding oat meal, cod liver oil, bone meal.
	F.	22.42	4.80	51.79	10.61	10.38	5.62	

Brand and Manufacturer	Pounds in 100 lbs. of Peeled Stuff					Crude Fiber	Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture		
Barco Special Broiler Mash G. N. Barlow's Co. Concord, N. H.	G. 17.00 F. 19.09	4.00 4.55	47.00 56.51	8.95	10.90	5.00 4.14	corn meal, wheat flour middlings, wheat bran, oat meal, dried skimmed milk, meat scraps, fish meal, alfalfa leaf meal, bone meal, lime flour, salt, cod liver oil.
Barco Special Broiler Mash G. N. Barlow's Co. Concord, N. H.	G. 14.00 F. 17.49	4.50 5.52	40.00 56.02	11.02	9.95	5.00 6.26	Wheat bran, corn meal, wheat red dog, oats, dried skimmed milk, meat scraps, charcoal, bone meal, alfalfa leaf meal, salt, cod liver oil.
Barco Special Broiler Mash G. N. Barlow's Co. Concord, N. H.	G. 20.00 F. 21.36	4.00 4.23	47.00 54.07	9.93	10.41	3.00 6.12	Oats, meat scraps, wheat red dog, wheat bran, corn gluten feed, alfalfa leaf meal, dried skimmed milk, salt, corn meal.
Barco Special Broiler Mash G. N. Barlow's Co. Concord, N. H.	G. 20.00 F. 21.76	4.00 4.80	50.00 53.47	10.38	9.59	7.00 6.97	Dried buttermilk, dried skimmed milk, meat scraps, fish meal, alfalfa leaf meal, corn meal, oats, barley, wheat bran, wheat flour middlings, cod liver oil, salt, calcium carbonate.
Barco Special Broiler Mash G. N. Barlow's Co. Concord, N. H.	G. 22.00 F. 21.31	4.50 6.06	48.00 52.25	11.12	9.26	7.00 6.85	Dried buttermilk, dried skimmed milk, meat scraps, fish meal, barley, oat, alfalfa leaf meal, wheat bran, wheat flour middlings, corn meal, cod liver oil, calcium carbonate, salt.
Barco Special Broiler Mash G. N. Barlow's Co. Concord, N. H.	G. 15.00 F. 15.81	3.50 3.50	55.00 64.61	5.97	10.11	6.50 6.82	Dried skimmed milk, oats, wheat corn meal, barley, wheat low grade flour, corn meal, corn oil meal, cod liver oil, calcium carbonate, salt.

Beacon Growing Mash Beacon Milling Co. Cayuga, N. Y.	G. F.	18.00 17.78	4.00 4.97	50.00 56.83	 11.31	 9.11	7.00 7.14	Dried skimmed milk, meat scraps, fish meal, oats, barley, corn meal, wheat red dog flour, alfalfa meal, wheat bran, wheat middlings, cod liver oil, calcium carbonate, salt.
Chase Growing Mash David C. Chase Smythtown, N. H.	G. F.	14.00 16.24	4.50 6.19	45.00 56.92	 11.82	 8.83	10.00 6.68	Corn meal, oat meal, wheat bran, wheat middlings, meat scraps, bone meal, charcoal, salt, dried milk, fish oil.
Chase Laying Mash David C. Chase Smythtown, N. H.	G. F.	18.00 21.36	4.50 6.22	45.00 52.55	 11.15	 8.72	10.00 6.76	Corn meal, oat meal, wheat bran, wheat middlings, meat scraps, corn gluten feed, dried milk, salt, charcoal, fish oil.
D & F Laying Mash D & F Grain Co. Pittsfield, N. H.	G. F.	18.00 18.56	4.00 4.74	53.00 58.77	 7.68	 10.25	9.00 5.69	Corn meal, wheat bran, red dog middlings, oats, fish meal, alfalfa leaf meal, calcite flour.
Delaware All Mash Delaware Mills Deposit, N. Y.	G. F.	17.00 16.23	5.00 4.62	60.00 61.61	 5.98	 11.56	6.00 5.48	Cod liver oil, dried skimmed milk, meat scraps, fish meal, wheat red dog flour, alfalfa leaf meal, corn meal, wheat bran, wheat middlings, oat meal, bone meal, phosphatic calcium carbonate, charcoal, salt.
Delaware Growing Mash Delaware Mills Deposit, N. Y.	G. F.	17.00 17.51	5.00 4.83	55.00 59.26	 7.47	 10.93	6.50 5.77	Cod liver oil, dried skimmed milk, alfalfa leaf meal, meat scraps, fish meal, bone meal, soybean oil meal, corn meal, wheat bran, wheat middlings, wheat flour middlings, oat meal, phosphatic calcium carbonate, salt.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Delaware Laying Mash Delaware Mills Deposit, N. Y.	G. 20.00 F. 19.38	5.00 4.72	50.00 56.38	 10.39	 9.13	7.00 6.91	Cod liver oil, dried skimmed milk, meat scraps, bone meal, fish meal, soybean oil meal, corn gluten feed, corn meal, wheat bran, wheat middlings, wheat red dog flour, oat meal, barley, alfalfa leaf meal, phosphatic calcium carbonate, salt.
Delaware Starter and Broiler Ration Delaware Mills Deposit, N. Y.	G. 18.00 F. 17.03	4.50 4.50	55.00 60.71	 4.98	 11.78	6.00 5.16	Cod liver oil, dried skimmed milk, meat scraps, fish meal, bone meal, alfalfa leaf meal, corn meal, wheat bran, wheat middlings, wheat red dog, oat meal, soybean oil meal, corn gluten feed, phosphatic calcium carbonate, salt.
Delaware Starter Grower-Layer Delaware Mills Deposit, N. Y.	G. 16.00 F. 16.94	4.50 4.79	60.00 60.62	 5.93	 11.72	6.00 6.06	Cod liver oil, dried skimmed milk, meat scraps, fish meal, bone meal, corn meal, wheat bran, wheat middlings, wheat red dog, alfalfa leaf meal, oats, soybean oil meal, phosphatic calcium carbonate, salt.
Delco Growing Mash Delaware Mills Deposit, N. Y.	G. 16.50 F. 16.59	4.00 4.83	50.00 58.19	 10.99	 9.40	9.00 7.82	Cod liver oil, dried skimmed milk, meat scraps, bone meal, soybean oil meal, corn meal, oats, alfalfa meal, corn gluten meal, corn gluten feed, wheat bran, wheat middlings, phosphatic calcium carbonate, salt.
Delco Laying Mash Delaware Mills Deposit, N. Y.	G. 17.00 F. 17.60	4.00 4.17	50.00 60.60	 4.94	 12.69	9.00 6.51	Cod liver oil, dried skimmed milk, meat scraps, bone meal, soybean oil meal, corn gluten meal, corn gluten feed, wheat bran, wheat middlings, corn meal or hominy feed, oats, alfalfa meal, phosphatic calcium carbonate, salt.

All Purpose Complete Ration Dietrich & Gambrell Frederick, Md.	G.	15.00	4.50	56.00	....	....	6.00	Corn meal, wheat, oats, wheat flour middlings, wheat bran, alfalfa leaf meal, dried buttermilk, meat scraps, fish meal, soybean oil meal, steamed bone meal, calcium carbonate, salt, cod liver oil.
	F.	16.46	4.50	61.57	7.16	10.31	4.88	
Canton Laying Mash Dietrich & Gambrell Frederick, Md.	G.	20.00	4.00	56.00	....	....	8.00	Wheat middlings, wheat bran, oats, corn meal, barley, soybean oil meal, corn gluten feed, alfalfa meal, meat scraps, fish meal, calcium carbonate, bone meal, salt, potassium iodide.
	F.	22.29	4.11	56.00	7.59	10.03	6.91	
D & G Broiler Mash Dietrich & Gambrell Frederick, Md.	G.	18.00	4.00	56.00	....	....	7.00	Wheat, oats, wheat bran, wheat middlings, alfalfa leaf meal, corn meal, fish meal, meat scraps, dried buttermilk, soybean oil meal, corn gluten meal, cod liver oil, bone meal, salt, calcium carbonate, potassium iodide.
	F.	19.04	3.88	58.28	8.46	10.34	5.81	
Frederick Laying Mash Dietrich & Gambrell Frederick, Md.	G.	18.00	4.00	53.00	....	....	8.00	Wheat bran, wheat middlings, corn feed meal, oats, barley, corn gluten meal, meat scraps, fish meal, alfalfa meal, soybean oil meal, bone meal, calcium carbonate, salt, dried buttermilk, cod liver oil, potassium iodide.
	F.	20.31	4.63	55.11	10.28	9.67	6.72	
Gambrell's Chick Starter Dietrich & Gambrell Frederick, Md.	G.	18.00	4.00	59.00	....	....	6.00	Oat meal, corn meal, meal flour, alfalfa leaf meal, wheat flour middlings, soybean oil meal, fish meal, meat scraps, dried buttermilk, cod liver oil, bone meal, calcium carbonate, salt, potassium iodide.
	F.	17.13	3.78	60.48	8.43	10.18	4.17	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
Laying Mash Dietrich & Gambrell Frederick, Md.	G. 20.00 F. 22.37	5.00 4.84	51.00 53.25	 10.97	 8.57	7.00 6.87
Poultry Conditioning Ration Dietrich & Gambrell Frederick, Md.	G. 15.00 F. 15.76	6.00 6.15	56.00 57.49	 10.15	 10.45	6.00 4.83
Laying Mash with Cod Liver Oil Dietrich & Gambrell Methuen, Mass.	G. 17.00 F. 16.44	4.00 3.89	53.50 60.42	 9.62	 10.23	7.00 9.50
Starting Growing Mash Dodge Grain Co. Methuen, Mass.	G. 16.00 F. 17.12	4.00 4.99	50.00 59.77	 8.51	 9.61	7.00 10.21
Eastern States All Mash Developer Eastern States Farmers' Exchange Sterlingfield, Mass.	G. 14.50 F. 15.19	3.50 4.83	58.00 61.64	 8.09	 10.25	6.00 5.24

Wheat bran, wheat middlings, corn feed meal, linseed meal, soybean oil meal, oats, alfalfa leaf meal, corn gluten meal, malt flour, meat scraps, fish meal, dried butter-milk, bone meal, calcium carbonate, salt, cod liver oil, potassium iodide.

Cracked wheat, cracked corn, corn meal, wheat red dog, oats, wheat bran, alfalfa leaf meal, dried buttermilk, fish meal, meat scraps, soybean oil meal, grit, bone meal, calcium carbonate, salt, mineral oil, peanut oil, cod liver oil, potassium iodide.

Corn meal, wheat bran, wheat middlings, oats, meat scraps, fish meal, dried skimmed milk, salt, alfalfa leaf meal, oyster shell meal, soybean oil meal, cod liver oil, molasses.

Corn meal, wheat bran, wheat middlings, oats, meat scraps, fish meal, dried skimmed milk, salt, alfalfa leaf meal, oyster shell meal, cod liver oil.

Yellow corn meal, wheat bran, wheat flour middlings, oats, barley, alfalfa leaf meal, soybean oil meal, dried skimmed milk, meat scraps, fish meal, oyster shell meal, dicalcium phosphate, salt, sardine oil.

Eastern States All Mash Egg Eastern States Farmers' Exchange Springfield, Mass.	G.	15.50	4.00	56.00	7.44	....	6.00	Yellow corn meal, wheat flour middlings, wheat bran, oats, barley, meat scraps, fish meal, alfalfa leaf meal, soybean oil meal, oyster shell meal, corn gluten meal, salt, sardine oil.
	F.	16.03	4.55	61.76	....	10.22	5.21	
Eastern States Combination Eastern States Farmers' Exchange Springfield, Mass.	G.	15.00	4.00	57.00	8.24	....	6.00	Yellow corn meal, wheat bran, wheat flour middlings, oats, meat scraps, alfalfa leaf meal, fish meal, soybean oil meal, oyster shell meal, dried skimmed milk, dried whey, dicalcium phosphate, salt, sardine oil, wheat germ oil.
	F.	16.42	4.55	60.86	....	9.93	5.31	
Eastern States Developer Eastern States Farmers' Exchange Springfield, Mass.	G.	18.50	4.00	52.00	9.37	....	6.50	Yellow corn meal, wheat bran, wheat flour middlings, barley, oats, soybean oil meal, alfalfa leaf meal, fish meal, meat scraps, dried skimmed milk, dried whey, oyster shell meal, salt, dicalcium phosphate, sardine oil.
	F.	19.49	4.59	57.06	....	9.49	6.09	
Eastern States Egg Mash Eastern States Farmers' Exchange Springfield, Mass.	G.	20.00	4.00	49.00	11.05	....	6.50	Yellow corn meal, wheat bran, wheat standard middlings, oats, barley, fish meal, meat scraps, soybean oil meal, alfalfa leaf meal, corn gluten meal, salt, sardine oil, oyster shell meal.
	F.	20.79	5.06	53.72	....	9.38	5.78	
Eastern States Producer 17 Eastern States Farmers' Exchange Springfield, Mass.	G.	17.00	4.00	52.00	10.47	....	6.00	Yellow corn meal, wheat flour middlings, wheat bran, oats, meat scraps, fish meal, alfalfa leaf meal, soybean oil meal, dried skimmed milk, dried whey, dicalcium phosphate, salt, sardine oil, wheat germ oil, oyster shell meal.
	F.	17.64	4.58	57.69	....	9.62	5.78	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Nutrena Protein 20 Elmore Soya Bean Extraction Springfield, Mass.	G. 26.00 F. 23.27	4.00 4.92	49.00 53.81	11.83	9.17	6.00 5.43	Yellow corn meal, wheat bran, oats, wheat flour middlings, meat scraps, alfalfa leaf meal, fish meal, dried skimmed milk, soybean oil meal, oyster shell meal, dried whey, di- calcium phosphate, salt, sardine oil, wheat germ oil.
	G. 18.50 F. 19.49	4.00 4.99	54.00 58.13	7.79	9.60	5.00 4.88	Yellow corn meal, wheat flour middlings, wheat bran, oat groats, dried skimmed milk, alfalfa leaf meal, meat scraps, fish meal, oyster shell meal, salt, dicalcium phosphate, sardine oil.
Elmore Complete Starter-Broiler Elmore Milling Co. Oneonta, N. Y.	G. 17.00 F. 19.00	4.00 4.76	55.00 57.08	9.90	9.26	6.00 6.28	Yellow corn meal, wheat bran, wheat mid- dlings, oat meal flour, corn gluten meal, meat and bone meal, fish meal, soybean oil meal, oyster shell flour, dried buttermilk, alfalfa leaf meal, cod liver oil, salt.
	G. 20.00 F. 19.63	4.00 5.78	55.00 55.78	9.37	9.44	8.00 5.72	Dried skimmed milk, meat meal, second clear wheat flour, oats, wheat middlings, yellow corn meal, wheat bran, alfalfa leaf meal, fish meal, bone meal, cod liver oil, oyster shell flour, salt.
Elmore M.A.G. Laying Mash Elmore Milling Co. Oneonta, N. Y.	G. 17.00 F. 18.17	5.00 5.14	60.00 57.82	9.11	9.76	7.00 6.14	Alfalfa leaf meal, wheat bran, mill run feedings, corn meal, fish meal, wheat mid- dlings, dried skimmed milk, oats, meat scraps, oyster shell flour, cod liver oil, salt.
	G. 17.00 F. 17.16	4.00 4.96	60.00 60.58	6.88	10.42	8.00 5.37	Yellow corn meal, wheat bran, wheat mid- dlings, oats, barley, alfalfa leaf meal, soybean oil meal, corn gluten meal, dried skimmed milk, meat scraps, oyster shell flour, cod liver oil, salt.

Eshelman Penny Laying Mash John W. Eshelman & Sons Lancaster, Pa.	G.	18.00	5.00	50.00	...	...	...	9.00	Corn meal, wheat middlings, meat scraps, wheat bran, oats, alfalfa meal, soybean oil meal, cane molasses, fish meal, corn gluten feed, linseed meal, bone meal, calcium carbonate, salt, cod liver oil.
	F.	18.87	4.45	57.70	9.06	9.92	7.14	7.14	
Eshelman Red Rose All-Mash Starter John W. Eshelman & Sons Lancaster, Pa.	G.	16.00	4.00	55.00	...	...	...	6.50	Corn meal, wheat bran, wheat middlings, oat meal, meat scraps, fish meal, soybean oil meal, alfalfa leaf meal, dried buttermilk, dried whey, linseed meal, calcium carbonate, bone meal, salt, cod liver oil.
	F.	19.70	4.64	58.68	7.98	9.00	5.47	5.47	
Eshelman Red Rose Broiler Ration John W. Eshelman & Sons Lancaster, Pa.	G.	17.00	4.50	55.00	...	...	...	7.50	Corn meal, wheat bran, wheat middlings, oat meal, meat scraps, wheat red dog, soybean oil meal, alfalfa meal, dried buttermilk, dried whey, linseed meal, fish meal, calcium carbonate, salt, cod liver oil.
	F.	19.88	4.50	57.55	8.13	9.94	6.60	6.60	
Eshelman Red Rose Chick Starter John W. Eshelman & Sons Lancaster, Pa.	G.	17.50	4.00	60.00	...	...	...	6.00	Oat meal, corn meal, wheat bran, wheat middlings, alfalfa leaf meal, dried buttermilk, dried whey, soybean oil meal, fish meal, linseed meal, bone meal, calcium carbonate, salt, cod liver oil.
	F.	19.18	4.36	60.02	7.53	8.91	5.15	5.15	
Eshelman Red Rose Growing Mash John W. Eshelman & Sons Lancaster, Pa.	G.	16.00	4.00	55.00	...	...	...	7.00	Wheat middlings, corn meal, wheat bran, meat scraps, oats, corn gluten feed, oat meal, soybean oil meal, hominy feed, linseed meal, fish meal, dried buttermilk, dried whey, alfalfa meal, calcium carbonate, salt, cod liver oil.
	F.	19.13	4.88	59.42	7.05	9.52	6.87	6.87	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Eshelman Red Rose Laying Mash John W. Eshelman & Sons Lancaster, Pa.	G. 20.00 F. 20.75	5.00 5.10	50.00 56.26	... 8.51	... 9.38	7.50 7.04	Wheat middlings, corn meal, meat scraps, wheat bran, corn gluten feed, oats, linseed meal, fish meal, soybean oil meal, herring feed, alfalfa meal, dried buttermilk, dried whey, calcium carbonate, salt, cod liver oil.
C. S. S. Mash Farm Service Stores Fitchburg, Mass.	G. 20.00 F. 19.28	4.00 2.43	50.00 52.25	... 11.04	... 15.00	7.00 8.19	Corn meal, wheat bran, wheat middlings, mill run, wheat screenings, oats, semi-solid buttermilk, alfalfa meal, soybean oil meal, corn gluten feed, meat scraps, fish meal, calcium carbonate, salt, cod liver oil.
Diamond C Laying Mash Farm Service Stores Fitchburg, Mass.	G. 15.00 F. 18.39	4.00 5.35	55.00 58.82	... 8.06	... 9.38	8.50 5.66	Corn meal, wheat bran, mill run wheat screenings, wheat middlings, oats, meat scraps, alfalfa meal, bone meal, salt.
Eventually Gold Medal Egg Mash Farm Service Stores Fitchburg, Mass.	G. 19.00 F. 19.26	5.00 5.47	53.00 53.07	... 12.61	... 9.59	8.00 6.35	Wheat bran, wheat middlings, mill run screenings, yellow corn meal, oats, alfalfa meal, meat and bone scrap, fish meal, dried skimmed milk, dried buttermilk, limestone, salt, cod liver oil.
N. E. C. Laying Mash Farm Service Stores Fitchburg, Mass.	G. 19.00 F. 17.63	5.00 4.92	50.00 57.14	... 10.12	... 10.19	9.00 5.79	Corn meal, wheat bran, mill run wheat screenings, wheat flour middlings, oats, meat scraps, alfalfa meal, dried milk, fish meal, calcium carbonate, salt, cod liver oil.
North Star Laying Mash Farm Service Stores Fitchburg, Mass.	G. 20.00 F. 23.03	5.00 6.22	45.00 49.03	... 13.17	... 8.55	7.00 5.49	Corn meal, oats, wheat bran, mill run wheat screenings, wheat middlings, corn gluten feed, linseed meal, soybean oil meal, alfalfa meal, meat scraps, fish meal, dried milk, calcium carbonate, salt, cod liver oil.

Henfield Egg Mash First National Stores Somerville, Mass.	G. F.	20.00 20.79	4.00 5.56	50.00 49.38	14.93 9.34	7.00 5.92	Cod liver oil, meat scraps, fish meal, dried skimmed milk, alfalfa meal, oats, hominy or corn meal, wheat middlings, wheat bran, wheat flour middlings, corn gluten feed, soybean oil meal, steamed bone meal, calcium carbonate, salt.
Garland Growing Mash with Cod Liver Oil J. B. Garland & Son Worcester, Mass.	G. F.	14.00 17.29	3.00 5.54	55.00 60.20	6.99 9.98	7.00 6.35	Alfalfa leaf meal, fish meal, meat scraps, linseed meal, dried buttermilk, cod liver oil, wheat bran, wheat middlings, soybean oil meal, oats, wheat, corn meal, calcium carbonate, salt.
Garland Laying Mash with Cod Liver Oil J. B. Garland & Son Worcester, Mass.	G. F.	18.00 20.14	3.00 6.62	55.00 54.46	9.25 9.53	7.00 6.11	Alfalfa leaf meal, soybean meal, fish meal, meat scraps, dried buttermilk, cod liver oil, linseed meal, wheat bran, wheat middlings, oats, wheat, corn meal, calcium carbonate, salt.
Royal Laying Mash with Cod Liver Oil J. B. Garland & Son Worcester, Mass.	G. F.	18.00 19.13	3.00 5.21	50.00 56.40	9.59 9.67	8.00 6.93	Alfalfa meal, corn meal, oats, wheat, dried buttermilk, wheat bran, wheat middlings, cod liver oil, fish meal, meat scraps, linseed meal, soybean oil meal, calcium carbonate, salt.
Golter Special Complete Ration J. R. Golter Portsmouth, N. H.	G. F.	15.00 15.50	4.50 3.96	56.00 62.79	6.99 10.76	6.00 4.49	Yellow corn meal, wheat, oats, potassium iodide, wheat flour middlings, wheat bran, alfalfa leaf meal, dried buttermilk, meat scraps, fish meal, soybean oil meal, steamed bone meal, calcium carbonate, salt, cod liver oil, molasses.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Moist- ure	Crude Fiber	
Grandin's Brooder Mash D. H. Grandin Milling Co. Jamestown, N. Y.	G. 20.00 F. 21.16	4.50 4.36	55.00 52.63	 12.62	 9.17	8.00 6.77	Cod liver oil, dried buttermilk, dried whey, meat and bone scrap, fish meal, soybean oil meal, corn gluten meal, alfalfa leaf meal, yellow corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, calcium carbonate, salt, potassium iodide.
Grandin's Broiler Mash D. H. Grandin Milling Co. Jamestown, N. Y.	G. 20.00 F. 21.91	5.00 4.88	57.00 54.16	 10.22	 9.73	8.00 6.23	Cod liver oil, dried buttermilk, dried whey, meat scrap, fish meal, soybean oil meal, corn gluten meal, alfalfa leaf meal, wheat bran, wheat middlings, wheat, feeding oat meal, yellow corn meal, hominy feed, oats, barley, calcium carbonate, salt, potassium iodide.
Grandin's Growing Mash D. H. Grandin Milling Co. Jamestown, N. Y.	G. 15.00 F. 16.68	4.00 4.92	55.00 57.54	 11.81	 9.05	8.00 6.99	Cod liver oil, dried buttermilk, meat and bone scrap, fish meal, soybean oil meal, corn gluten feed, alfalfa leaf meal, yellow corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, calcium carbonate, salt, potassium iodide.
Grandin's Laying Mash D. H. Grandin Milling Co. Jamestown, N. Y.	G. 20.00 F. 19.37	4.00 4.26	56.00 56.03	11.6	8.9	8.00 7.10	Cod liver oil, dried buttermilk, ground meat and bone, fish meal, soybean oil meal, corn gluten meal, corn gluten feed, alfalfa leaf meal, yellow corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, calcium carbonate, salt, potassium iodide.

Grandin's Start to Finish Mash D. H. Grandin Milling Co. Jamestown, N. Y.	G.	16.00	4.00	58.00	...	...	7.00	Cod liver oil, dried buttermilk, meat and bone scrap, fish meal, soybean oil meal, corn gluten feed, alfalfa leaf meal, yellow corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, calcium carbonate, salt, potassium iodide.
	F.	18.13	5.32	58.92	8.53	9.10	6.87	
M-S Money Saver Laying Mash D. H. Grandin Milling Co. Jamestown, N. Y.	G.	18.00	4.00	50.00	...	...	8.00	Dried whey, meat and bone scrap, fish meal, yellow corn meal, hominy feed, barley, oats, soybean oil meal, alfalfa leaf meal, corn gluten feed, wheat bran, wheat middlings, calcium carbonate, salt, potassium iodide, cod liver oil.
	F.	16.90	3.74	58.82	11.56	8.98	7.17	
Daily Egg Laying Mash Feed Great Atlantic & Pacific Tea Co. New York, N. Y.	G.	20.00	4.00	55.50	...	...	6.50	Oats, barley, soybean oil meal, linseed meal, corn gluten meal, wheat standard middlings, wheat bran, alfalfa meal, corn feed meal, dried buttermilk, dried skimmed milk, meat and bone scrap, fish meal, flour middlings, cod liver oil, cod liver meal, calcium carbonate, steamed bone meal, salt, red iron oxide, potassium iodide.
	F.	20.09	4.43	54.40	10.62	10.46	6.63	
Daily Growth Growing Mash Great Atlantic & Pacific Tea Co. New York, N. Y.	G.	17.50	4.00	56.50	...	...	6.50	Meat and bone scrap, dried buttermilk, dried skimmed milk, wheat bran, alfalfa meal, wheat standard middlings, corn feed meal, oats, barley, linseed meal, corn gluten feed, cod liver oil, calcium carbonate, steamed bone meal, salt.
	F.	19.09	3.82	58.70	8.64	9.75	7.54	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
Cheshire County Mash E. C. & W. L. Hopkins Greenfield, N. H.	G. 18.00 F. 18.43	4.00 4.47	50.00 55.68	11.11	10.31	5.00 6.27
Granite State Breeder Mash E. C. & W. L. Hopkins Greenfield, N. H.	G. 20.00 F. 21.19	4.00 4.76	50.00 50.77	12.22	11.06	6.09 5.32
Granite State Chick Starter E. C. & W. L. Hopkins Greenfield, N. H.	G. 16.00 F. 18.48	4.00 5.71	50.00 55.29	10.38	10.14	6.0 4.93
Granite State Complete Mash E. C. & W. L. Hopkins Greenfield, N. H.	G. 15.00 F. 17.11	4.00 4.87	56.00 58.12	10.07	10.12	9.00 6.43
Granite State Egg Mash E. C. & W. L. Hopkins Greenfield, N. H.	G. 15.00 F. 16.79	4.00 4.68	50.00 58.28	6.97	10.78	5.30 5.15
Granite State Growing Mash E. C. & W. L. Hopkins Greenfield, N. H.	G. 17.00 F. 17.38	4.00 5.52	58.00 56.92	10.56	9.63	6.50 5.76
						Standard wheat bran, corn meal, corn gluten feed, beef scraps, wheat middlings, rolled oats, alfalfa leaf meal, oats, calcium carbonate, salt.
						Corn meal, wheat middlings, wheat bran, barley, meat scraps, fish meal, kelp, alfalfa meal, oats, dried whey, soybean oil meal, lactolavin concentrate, oyster shell meal, cod liver oil, wheat germ oil.
						Yellow corn meal, wheat bran, wheat midd- lings, wheat red dog, feeding oat meal, dried skimmed milk, meat scraps, alfalfa leaf meal, kelp, fish meal, charcoal, calcium car- bonate, cod liver oil.
						Corn, oats, wheat, wheat bran, wheat midd- lings, alfalfa leaf meal, soybean oil meal, kelp, dried skimmed milk, meat scraps, fish meal, calcium carbonate, cod liver oil.
						Pared skimmed milk, oats, corn, wheat midd- lings, wheat bran, barley, meat scraps, alfalfa leaf meal, kelp, fish meal, calcium carbonate, cod liver oil.
						Corn, wheat bran, wheat middlings, wheat red dog, wheat, alfalfa leaf meal, oats, meat scraps, dried skimmed milk, kelp, fish meal, oyster shell meal, cod liver oil.

Johnson's Mash Feed Ralph P. Johnson & Son Potter Place, N. H.	G.	18.00	4.00	50.00	.....	.....	7.00	Corn meal, wheat middlings, oats, wheat bran, meat scraps, corn gluten feed, alfalfa meal, charcoal, soybean oil meal, dried skimmed milk, calcite flour, bone meal, cod liver oil, salt.
	F.	18.60	4.58	56.61	9.67	10.54	5.58	
Apex Growing Mash Kasco Mills Waverly, N. Y.	G.	17.00	4.00	50.00	.....	.....	8.50	Corn meal, oats, barley, wheat bran, wheat middlings, linseed meal, soybean oil meal, alfalfa meal, meat scraps, fish meal, bone meal, dried skimmed milk, milk sugar feed, lactoflavin, salt, calcite, cod liver oil.
	F.	19.62	4.40	56.12	9.00	10.86	6.91	
Apex Laying Mash Kasco Mills Waverly, N. Y.	G.	20.00	4.00	50.00	.....	.....	8.50	Wheat bran, wheat middlings, corn meal, linseed meal, soybean oil meal, oats, meat scraps, bone meal, fish meal, dried skimmed milk, milk sugar feed, barley, salt, calcite, cod liver oil, alfalfa meal, lactoflavin concentrate.
	F.	20.27	4.59	52.33	13.20	9.61	5.79	
Kasco All Mash Chick Food Kasco Mills Waverly, N. Y.	G.	17.00	4.00	55.00	.....	.....	5.50	Wheat red dog, oat meal, wheat middlings, wheat bran, corn meal, meat scraps, fish meal, bone meal, linseed meal, soybean oil meal, dried skimmed milk, milk sugar feed, lactoflavin, salt, cod liver oil, calcite, alfalfa leaf meal.
	F.	19.00	4.92	57.22	8.84	10.09	4.58	
Kasco All Mash Growing Food Kasco Mills Waverly, N. Y.	G.	14.00	4.00	55.00	.....	.....	5.50	Wheat red dog, oat meal, wheat middlings, wheat bran, corn meal, meat scraps, fish meal, bone meal, linseed meal, dried skimmed milk, milk sugar feed, salt, calcite, cod liver oil, alfalfa leaf meal, oats, soybean oil meal, lactoflavin concentrate.
	F.	15.76	4.59	62.81	6.41	10.13	5.83	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
Kasco All Mash Laying Food Kasco Mills Waverly, N. Y.	G. 15.00 F. 16.81	4.00 4.56	55.00 60.55	7.48	10.60	6.00 5.24
Kasco Broiler Ration Kasco Mills Waverly, N. Y.	G. 18.00 F. 20.79	4.00 4.99	50.00 56.19	8.02	10.01	5.50 5.17
Kasco Laying Mash Kasco Mills Waverly, N. Y.	G. 20.00 F. 20.40	4.00 5.60	50.00 51.97	12.54	9.49	6.50 6.80
Kasco Poultry Fatener Kasco Mills Waverly, N. Y.	G. 18.00 F. 17.20	4.50 6.17	60.00 60.90	5.84	9.89	5.00 5.73
Larn Broiler Food Larn Bros. Milling Co. Detroit, Mich.	F. 18.00 F. 18.43	4.00 4.23	56.50 57.71	9.44	10.19	6.50 5.70

Wheat bran, wheat middlings, corn meal, linseed meal, soybean oil meal, oat meal, barley, wheat red dog, meat scraps, bone meal, fish meal, dried skimmed milk, milk sugar feed, salt, calcite, cod liver oil, alfalfa meal, oats, lactoflavin concentrate.

Wheat bran, wheat middlings, corn meal, linseed meal, soybean oil meal, oat meal, wheat red dog, meat scraps, bone meal, fish meal, dried skimmed milk, milk sugar feed, calcite, salt, cod liver oil, alfalfa leaf meal, lactoflavin concentrate.

Wheat bran, wheat middlings, corn meal, linseed meal, soybean oil meal, oat meal, wheat red dog, meat scraps, bone meal, fish meal, dried skimmed milk, milk sugar feed, salt, calcite, cod liver oil, alfalfa meal, oats, lactoflavin concentrate.

Corn meal, oats, meat scraps, wheat middlings, wheat red dog, soybean oil meal, linseed meal, corn germ meal, salt.

Yellow corn meal, wheat standard middlings, alfalfa meal, wheat bran, meat and bone scraps, dried buttermilk, soybean oil meal, fish meal, dried skimmed milk, oats, cod liver oil, limestone, salt.

Larro Chick Builder Larowe Milling Co. Detroit, Mich.	G.	19.00	4.00	53.00	....	....	7.00	Wheat bran, yellow corn meal, wheat stan-
	F.	20.75	4.36	54.32	10.93	9.64	6.32	dard middlings, barley, meat and bone scrap, soybean oil meal, fish meal, alfalfa meal, dried skimmed milk, dried buttermilk, oats, cod liver oil, limestone, salt.
Larro Egg Mash Larowe Milling Co. Detroit, Mich.	G.	20.00	4.00	52.50	....	....	7.50	Wheat bran, yellow corn meal, wheat stan-
	F.	21.10	4.47	54.93	9.49	10.01	5.99	dard middlings, barley, meat and bone scrap, soybean oil meal, fish meal, alfalfa meal, dried, skimmed milk, dried buttermilk, oats, cod liver oil, limestone, salt.
Larro Turkey Finisher Larowe Milling Co. Detroit, Mich.	G.	19.00	3.50	52.00	....	....	7.00	Yellow corn meal, wheat standard middlings,
	F.	20.09	4.50	56.37	10.22	8.82	6.05	wheat bran, meat and bone scrap, soybean oil meal, barley, oats, dried buttermilk, dried skimmed milk, alfalfa meal, limestone, salt.
B-B Broiler Ration Maritime Milling Co. Buffalo, N. Y.	G.	20.00	4.00	55.00	....	....	7.00	Cod liver oil, kelp meal, milk sugar feed,
	F.	20.44	4.75	57.51	7.54	9.76	7.15	dried buttermilk, alfalfa meal, wheat bran, mill run screenings, wheat flour middlings, wheat, corn meal, oats, barley, oat meal, soybean oil meal, corn gluten meal, meat and bone meal, fish meal, calcium carbonate, salt, potassium iodide.
B-B Complete Chick Starter Ration Maritime Milling Co. Buffalo, N. Y.	G.	20.00	4.00	60.00	....	....	6.00	Cod liver oil, kelp meal, milk sugar feed,
	F.	18.97	4.37	57.03	8.88	10.75	6.17	dried buttermilk, alfalfa leaf meal, wheat middlings, wheat bran, wheat, corn gluten meal, corn meal, oats, barley, soybean oil meal, oat meal, meat and bone meal, fish meal, calcium carbonate, potassium iodide, salt.

Pounds in 100 lbs. of Feeding Stuffs

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
B-B Daisy Egg Mash Maritime Milling Co. Buffalo, N. Y.	G. 20.00	3.50	55.00	...	...	...
	F. 20.93	4.46	54.77	8.84	11.00	8.27
B-B Fatting Mash Maritime Milling Co. Buffalo, N. Y.	G. 13.00	4.00	60.00	...	...	...
	F. 15.38	4.31	65.33	4.32	10.66	5.48
B-B Layer and Brooder Mash Maritime Milling Co. Buffalo, N. Y.	G. 20.00	4.50	50.00	...	...	...
	F. 20.57	4.57	56.22	8.07	10.57	7.00
B-B Starter and Growing Ration Maritime Milling Co. Buffalo, N. Y.	G. 17.00	4.00	55.00	...	...	...
	F. 20.49	4.54	55.56	9.30	10.11	6.03
Maritack A-3 Mash Maritack Farmers Concord, N. H.	G. 15.00	4.00	60.00	...	...	...
	F. 15.94	4.20	62.29	6.65	10.92	4.18

Certified by manufacturer to contain

cod liver oil, dried buttermilk, alfalfa meal, wheat bran, wheat middlings, mill run soybean oil meal, oat groats, corn meal, corn meal, barley, oats, meat and bone meal, fish meal, calcium carbonate, salt.

Milk, sugar feed, dried buttermilk, wheat flour middlings, wheat middlings, mill run screenings, corn meal, corn gluten meal, corn meal, alfalfa meal, barley, oats, linseed meal, oat meal, feed and bone meal, calcium carbonate, salt.

Cod liver oil, liver meal, milk sugar feed, dried buttermilk, alfalfa leaf meal, wheat bran, wheat middlings, mill run screenings, soybean oil meal, corn gluten meal, corn meal, barley, oat meal, meat and bone meal, fish meal, calcium carbonate, salt, potassium iodide.

Cod liver oil, milk sugar feed, dried buttermilk, alfalfa leaf meal, wheat bran, wheat middlings, mill run screenings, soybean oil meal, corn gluten meal, corn meal, barley, wheat, oat meal, meat and bone meal, fish meal, calcium carbonate, salt, potassium iodide.

Oats, cracked wheat, corn meal, wheat bran, soybean oil meal, oat groats, alfalfa leaf meal, meat scraps, fish meal, dried skimmed milk, calcium carbonate, steamed bone meal, salt, cod liver oil.

Merrimack Chick Starter Merrimack Farmers' Exchange Concord, N. H.	G. F.	16.00 17.73	4.00 4.80	50.00 60.05	 7.43	 9.99	4.00 3.96	Soybean oil meal, corn meal, cracked corn, wheat flour middlings, wheat standard middlings, wheat bran, cracked wheat, meat scraps, fish meal, cut oat groats, dried skimmed milk, steamed bone meal, alfalfa leaf meal, salt, calcium carbonate, cod liver oil.
Merrimack Growing Mash Merrimack Farmers' Exchange Concord, N. H.	G. F.	17.00 18.69	4.25 5.03	50.00 56.91	 9.67	 9.70	5.00 4.47	Soybean oil meal, corn meal, wheat bran, wheat red dog, wheat middlings, oat groats, alfalfa leaf meal, fish meal, skimmed milk, meat scraps, bone meal, calcium carbonate, salt, cod liver oil.
Merrimack Laying Mash Merrimack Farmers' Exchange Concord, N. H.	G. F.	18.00 18.17	4.25 5.38	50.00 55.86	 10.17	 10.42	5.00 4.82	Soybean oil meal, corn meal, wheat bran, wheat flour middlings, wheat standard middlings, oat groats, fish meal, alfalfa leaf meal, oats, dried skimmed milk, meat scraps, steamed bone meal, calcium carbonate, salt, cod liver oil.
Merrimack Special Mash Merrimack Farmers' Exchange Concord, N. H.	G. F.	18.00 19.79	5.00 5.07	50.00 54.21	 10.42	 10.51	8.00 5.49	Soybean oil meal, wheat middlings, corn meal, alfalfa leaf meal, wheat bran, oats, meat scraps, fish meal, calcium carbonate, cod liver oil.
Merrimack Super Mash Merrimack Farmers' Exchange Concord, N. H.	G. F.	18.00 18.04	5.00 5.00	50.00 57.50	 9.37	 10.09	5.00 4.64	Corn meal, soybean oil meal, oat groats, wheat flour middlings, wheat standard middlings, wheat bran, meat scraps, fish meal, dried skimmed milk, alfalfa leaf meal, steamed bone meal, calcium carbonate, salt, cod liver oil.
Northeastern Layer Mash Northeastern Supply Co. Ipswich, Mass.	G. F.	20.00 20.53	4.50 6.65	54.00 51.86	 11.50	 9.46	8.00 6.09	Corn meal, oats, wheat bran, wheat middlings, soybean oil meal, fish meal, alfalfa meal, dried skimmed milk, beef scraps, oyster shell meal, salt, sardine oil.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Crude Fiber	Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture		
Northeastern Range Mash Northeastern Supply Co. Ipswich, Mass.	G. 19.00 F. 20.66	4.00 5.59	52.00 53.62	10.38	9.75	7.00 6.81	Corn meal, oats, barley, wheat bran, wheat middlings, alfalfa meal, corn gluten feed, soybean oil meal, dried skimmed milk, beef scraps, fish meal, oyster shell meal, salt, sardine oil.
	G. 17.00 F. 18.91	4.50 5.69	53.00 55.92	9.46	10.02	6.00 5.56	Corn meal, wheat bran, wheat middlings, alfalfa leaf meal, corn gluten feed, oat meal, dried skimmed milk, beef scraps, fish meal, oyster shell meal, salt, sardine oil.
Northeastern Starter Broiler Northeastern Supply Co. Ipswich, Mass.	G. 15.00 F. 19.39	3.00 4.28	50.00 56.35	10.51	9.47	7.00 7.33	Dried buttermilk, corn meal, alfalfa meal, oats, wheat, meat, bone, corn gluten meal, buckwheat, wheat bran, soybean oil meal, barley, fish meal, calcium carbonate, salt, cod liver oil.
	G. 18.00 F. 18.89	3.00 3.95	50.00 58.33	9.26	10.16	8.00 7.02	Dried buttermilk, alfalfa meal, corn meal, wheat bran, mill run wheat screenings, wheat middlings, fish meal, meat, bone, linseed meal, corn gluten meal, soybean oil meal, calcium carbonate, salt, wheat, oats, barley, kafir corn, buckwheat, cod liver oil.
Bedwell Layering Mash Park & Pollard Co. Boston, Mass.	G. 19.00 F. 11.33	7.50 3.14	55.00 67.43	6.13	11.97	2.50 6.15	Yellow corn, wheat, buckwheat, barley, alfalfa meal, wheat middlings, corn gluten feed, hominy, molasses, calcium carbonate, cod liver oil, onts.

Lay or Bust Dry Mash Park & Pollard Co. Boston, Mass.	G.	18.00	3.00	50.00	....	....	7.00	Dried buttermilk, alfalfa leaf meal, corn
	F.	18.39	3.98	59.11	9.12	9.40	7.07	gluten meal, fish meal, meat and bone scrap, soybean oil meal, wheat bran, mill run wheat screenings, wheat middlings, calcium carbonate, salt, corn, wheat, oats, barley, kafir corn, buckwheat, cod liver oil, linseed meal.
Manamar Lay or Bust Dry Mash Park & Pollard Co. Boston, Mass.	G.	18.00	3.00	50.00	....	....	7.00	Kelp, fish meal, sea shells, dried buttermilk,
	F.	20.22	4.13	56.48	10.09	9.08	7.00	alfalfa leaf meal, corn gluten meal, meat and bone scrap, linseed meal, soybean oil meal, wheat bran, mill run wheat screenings, wheat middlings, calcium carbonate, salt, corn, wheat, oats, barley, kafir corn, buckwheat, cod liver oil.
Manamar Life Cycle Mash Park & Pollard Co. Boston, Mass.	G.	16.00	3.50	55.00	....	....	7.00	Kelp, fish meal, sea shells, meat scraps, wheat
	F.	17.51	3.91	58.99	10.34	9.25	7.00	bran, mill run wheat screenings, wheat middlings, soybean oil meal, alfalfa leaf meal, corn gluten meal, dried buttermilk, yellow corn meal, oats, wheat, barley, buckwheat, cod liver oil.
Park and Pollard Starter and Broiler Mash Park & Pollard Co. Boston, Mass.	G.	18.00	4.00	50.00	....	....	6.00	Yellow corn meal, wheat bran, wheat flour
	F.	17.34	4.13	59.02	9.20	10.31	6.56	middlings, oats, fish meal, meat scraps, corn gluten meal, soybean oil meal, alfalfa leaf meal, calcium carbonate, salt, dried skimmed milk, cod liver oil.
Purina Broiler Chow Purina Mills St. Louis, Mo.	G.	18.00	4.00	53.00	....	....	7.00	Carotene, dried buttermilk, cod liver oil,
	F.	19.48	4.65	58.65	7.18	10.04	5.40	sardine oil, meat scraps, fish meal, soybean oil meal, alfalfa leaf meal, corn meal, oats, wheat middlings, wheat bran, alfalfa meal, calcium carbonate, iodized salt.
Purina Chicken Fatena Purina Mills St. Louis, Mo.	G.	14.00	4.00	61.50	....	....	7.50	Oats, corn meal, barley, corn germ meal,
	F.	17.77	4.77	64.51	3.80	9.15	6.71	second clear wheat flour, grey wheat middlings, soybean oil meal, meat scraps, rolled oats, iodized salt.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Crude Fiber	Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture		
Purina Egg Chowder	G. 21.00	4.00	50.00	....	....	8.00	Carotene, cod liver oil, sardine oil, meat scraps, soybean oil meal, fish meal, alfalfa meal, dried buttermilk, corn germ meal, wheat middlings, wheat bran, corn meal, oats, iodized salt, calcium carbonate.
Purina Mills	F. 22.64	5.87	51.18	11.90	8.41	7.96	
St. Louis, Mo.							
Purina Family Flock Chow	G. 18.00	3.50	55.00	....	....	8.00	Carotene, meat scraps, soybean oil meal, alfalfa meal, dried buttermilk, wheat middlings, wheat bran, corn meal, barley, corn gluten feed, cod liver oil, sardine oil, calcium carbonate, iodized salt.
Purina Mills	F. 19.91	4.51	55.04	11.45	9.09	7.11	
St. Louis, Mo.							
Purina Growing Chow	G. 17.00	3.50	55.00	....	....	7.00	Carotene, cod liver oil, sardine oil, meat scraps, fish meal, soybean oil meal, wheat germ, dried buttermilk, corn germ meal, grey wheat middlings, wheat bran, alfalfa meal, corn meal, calcium carbonate, iodized salt.
Purina Mills	F. 19.81	4.87	57.61	8.73	9.48	5.86	
St. Louis, Mo.							
Purina Lay Chow	G. 21.00	4.00	50.00	....	....	8.00	Carotene, cod liver oil, sardine oil, meat scraps, soybean oil meal, fish meal, alfalfa meal, dried buttermilk, corn germ meal, wheat middlings, wheat bran, corn meal, oats, iodized salt, calcium carbonate.
Purina Mills	F. 24.37	6.03	51.95	11.38	8.27	7.78	
St. Louis, Mo.							
Purina Layena	G. 15.50	3.50	55.00	....	....	8.00	Carotene, cod liver oil, sardine oil, meat scraps, oats, fish meal, soybean oil meal, alfalfa meal, dried buttermilk, wheat middlings, beet pulp, corn meal, iodized salt, calcium carbonate.
Purina Mills	F. 17.69	5.21	58.99	8.75	9.36	5.49	
St. Louis, Mo.							
Protina Laying Mash	G. 18.00	3.50	52.50	....	....	8.50	Meat scraps, soybean oil meal, linseed meal, corn meal, dried buttermilk, cod liver oil, sardine oil, alfalfa meal, wheat middlings, wheat bran, calcium carbonate, salt.
Purina Mills	F. 20.00	5.57	55.06	10.27	9.10	8.06	
St. Louis, Mo.							

Purina Turkey Growing Chow Purina Mills St. Louis, Mo.	G.	21.00	3.50	51.00	7.16	10.46	8.00	Carotene, meat scraps, soybean oil meal, alfalfa meal, dried buttermilk, corn meal, wheat middlings, wheat bran, iodized salt.
	F.	22.55	5.16	54.67			5.59	
Big Egg Laying Mash Quaker Oats Co. Chicago, Ill.	G.	18.00	4.00	58.00	6.03	8.34	8.00	Honiny feed, yellow hominy feed, wheat bran, wheat standard middlings, oats, fish meal, soybean oil meal, meat scraps, sardine oil, dried skimmed milk, molasses, alfalfa meal, salt.
	F.	19.09	4.93	61.61			7.41	
Ful-O-Pep Egg Breeder Mash Quaker Oats Co. Chicago, Ill.	G.	20.00	4.50	52.00	7.95		8.00	Oat meal, hominy feed, yellow hominy feed, wheat bran, wheat standard middlings, barley meal, fish meal, cod liver meal, meat scraps, sardine oil, dried whey, dried buttermilk, molasses, alfalfa meal, salt.
	F.	20.44	5.83	57.41			7.40	
Quaker Ful-O-Pep Chick Starter Quaker Oats Co. Chicago, Ill.	G.	17.00	5.00	57.00	5.62	8.12	7.00	Oat meal, yellow hominy feed, wheat bran, wheat standard middlings, fish meal, cod liver meal, meat scraps, sardine oil, dried skimmed milk, dried buttermilk, molasses, alfalfa meal, salt.
	F.	17.29	5.68	63.29			6.24	
Quaker Ful-O-Pep Egg Mash Quaker Oats Co. Chicago, Ill.	G.	20.00	4.50	53.00	8.56	7.44	8.00	Oat meal, hominy feed, yellow hominy feed, wheat bran, wheat standard middlings, barley meal, fish meal, cod liver meal, meat scraps, sardine oil, dried skimmed milk, dried buttermilk, molasses, alfalfa meal, salt.
	F.	20.93	5.92	57.15			7.23	
Wirthmore Battery Ration St. Albans Grain Co. St. Albans, Vt.	G.	15.00	4.00	60.00	8.21	11.22	6.00	Cod liver oil, dried skimmed milk, dried whey, liver meal, meat scraps, fish meal, alfalfa meal, yellow corn meal, wheat, wheat bran, wheat standard middlings, oats, barley, calcium carbonate, salt.
	F.	16.99	4.04	59.54			4.21	
Wirthmore Complete Chick Starter and Broiler Ration St. Albans Grain Co. St. Albans, Vt.	G.	17.50	4.00	58.00	10.20	10.01	5.50	Cod liver oil, dried skimmed milk, dried whey, oat groats, meat scraps, fish meal, alfalfa leaf meal, corn gluten meal, soybean oil meal, yellow corn meal, wheat bran, wheat middlings, calcium carbonate, salt.
	F.	20.22	4.36	55.21			5.50	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Wirthmore Complete Egg Ration St. Albans Grain Co. St. Albans, Vt.	G. 15.00 F. 15.59	4.00 4.02	60.00 62.09	7.28	11.02	6.00 4.98	Cod liver oil, dried skimmed milk, dried whey, meat scraps, fish meal, corn gluten meal, soybean oil meal, alfalfa meal, yellow corn meal, wheat, oats, barley, wheat bran, wheat middlings, calcium carbonate, salt.
Wirthmore Complete Growing Ration St. Albans Grain Co. St. Albans, Vt.	G. 14.00 F. 14.49	3.75 4.44	65.00 63.88	6.82	10.37	6.00 4.60	Cod liver oil, dried skimmed milk, dried whey, meat scraps, fish meal, soybean oil meal, corn gluten meal, yellow corn meal, wheat, oats, barley, alfalfa leaf meal, wheat bran, wheat middlings, calcium carbonate, salt.
Wirthmore Complete Laying Ration St. Albans Grain Co. St. Albans, Vt.	G. 15.00 F. 16.46	4.00 5.26	60.00 58.70	9.24	10.34	5.00 4.15	Cod liver oil, dried skimmed milk, dried whey, liver meal, meat scraps, fish meal, oat groats, yellow corn meal, oats, alfalfa leaf meal, wheat, wheat bran, wheat middlings, calcium carbonate, salt.
Wirthmore Flushing Pellets St. Albans Grain Co. St. Albans, Vt.	G. 15.00 F. 15.50	4.50 4.59	60.00 61.61	8.34	9.96	6.50 5.69	Dried skimmed milk, meat scraps, soybean oil meal, corn gluten meal, oat meal, wheat bran, wheat middlings, wheat red dog flour, yellow corn meal, alfalfa meal, calcium carbonate, salt, cod liver oil, molasses.
Wirthmore Growing Mash with Cod Liver Oil St. Albans Grain Co. St. Albans, Vt.	G. 15.00 F. 16.07	4.50 4.53	55.00 60.79	7.98	10.63	6.00 4.95	Cod liver oil, dried skimmed milk, dried whey, meat scraps, fish meal, yellow corn meal, alfalfa leaf meal, linseed meal, wheat, oats, barley, soybean oil meal, corn gluten meal, wheat bran, wheat middlings, wheat red dog, calcium carbonate, salt.

Wirthmore Laying Mash St. Albans Grain Co., St. Albans, Vt.	G. F.	20.00 20.31	4.00 4.73	50.00 54.14	10.18 10.64	7.00 5.28	Cod liver oil, dried skimmed milk, whey, meat scraps, fish meal, yellow corn meal, alfalfa meal, soybean oil meal, corn gluten meal, wheat bran, wheat middlings, wheat, oats, barley, buckwheat, calcium carbonate, salt.
Feed Board Egg Mash South End Hay and Grain Co., Manchester, N. H.	G. F.	18.00 19.09	4.00 4.37	53.00 54.98	10.17 11.39	6.50 6.10	Corn meal, wheat bran, wheat flour middlings, oats, fish meal, alfalfa leaf meal, dried skimmed milk, oyster shell meal, cod liver oil, beef scraps, dicalcium phosphate, salt.
Starting and Growing Broiler Rations South End Hay and Grain Co., Manchester, N. H.	G. F.	17.00 17.00	4.00 4.46	53.00 57.74	9.85 10.95	5.00 6.14	Corn meal, wheat bran, dried skimmed milk, wheat flour middlings, oats, beef scraps, fish meal, oyster shell meal, cod liver oil, alfalfa leaf meal, bone meal, salt.
Favorite Growing Mash Jacob Trinley & Sons Linfield, Pa.	G. F.	16.00 18.47	3.50 6.97	55.00 58.01	9.14	7.00 8.31	Corn meal, oats, soybean oil meal, wheat bran, wheat middlings, dried buttermilk, meat scraps, alfalfa meal, cane molasses, bone meal, charcoal, salt, cod liver oil.
Favorite Laying Mash Jacob Trinley & Sons Linfield, Pa.	G. F.	18.00 19.92	4.00 5.59	50.00 55.19	8.86 10.44	8.00 8.00	Corn meal, meat scraps, buttermilk, soybean oil meal, wheat bran, wheat middlings, oats, corn gluten feed, molasses, salt, calcium carbonate, bone meal, alfalfa meal, charcoal, cod liver oil.
Limerick Laying Mash Jacob Trinley & Sons Linfield, Pa.	G. F.	18.00 21.49	3.00 5.17	55.00 56.25	9.80	8.00 8.23	Soybean oil meal, corn meal, meat scraps, alfalfa meal, oats, corn gluten feed, wheat bran, wheat middlings, cane molasses, calcium carbonate, charcoal, salt.
Real Starter and Developer Mash Jacob Trinley & Sons Linfield, Pa.	G. F.	16.00 17.99	4.00 5.95	55.00 56.01	9.90 10.15	7.00 6.11	Corn meal, alfalfa meal, bone meal, dried buttermilk, fish meal, meat meal, wheat bran, oat meal, wheat middlings, molasses, cod liver oil.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Crude Fiber	Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture		
Blue Seal Egg Mash H. K. Webster Co. Lawrence, Mass.	G. F. 19.00 19.79	4.50 4.74	54.00 54.46	10.68	10.33	6.00 5.43	Yellow corn meal, oats, wheat bran, wheat middlings, meat scraps, dried skimmed milk, alfalfa leaf meal, cane molasses, corn gluten meal, calcium carbonate, salt, cod liver oil.
Blue Seal Improved All Mash Kation H. K. Webster Co. Lawrence, Mass.	G. F. 15.00 16.51	4.50 4.91	55.00 59.06	8.29	11.23	4.00 4.44	Yellow corn, wheat, oats, wheat bran, wheat flour middlings, meat scraps, codfish meal, dried skimmed milk, alfalfa leaf meal, cane molasses, calcium carbonate, salt, cod liver oil.
Blue Seal Laying Mash H. K. Webster Co. Lawrence, Mass.	G. F. 20.00 20.66	4.00 4.99	54.00 52.90	11.47	9.98	6.00 5.38	Yellow corn meal, wheat bran, oats, wheat middlings, corn gluten meal, wheat flour middlings, barley, wheat, cane molasses, alfalfa leaf meal, dried skimmed milk, codfish meal, salt, calcium carbonate, cod liver oil.
Whiting Laying Mash David Whiting & Sons Wilton, N. H.	G. F. 17.00 18.78	4.00 5.23	55.00 56.58	9.89	9.52	5.00 5.85	Yellow corn meal, wheat bran, wheat flour middlings, oats, meat scraps, dried milk, fish meal, alfalfa leaf meal, calcium carbonate, salt, cod liver oil.
Whiting Special Mash David Whiting & Sons Wilton, N. H.	G. F. 18.00 19.44	4.00 5.33	50.00 55.44	10.68	9.11	5.00 6.39	Wheat bran, corn meal, corn gluten meal, beef scraps, wheat middlings, oats, alfalfa leaf meal, calcium carbonate, salt, dried skimmed milk, cod liver oil.
RYE FEED Rye Feed Finger Laker and Hudson Flour Mills Troy, N. Y.	G. F. 13.50 16.99	3.00 3.00	65.41	3.69	10.91	6.00	Rye bran, rye middlings, hulls, rye, screenings.
SOYBEAN OIL MEAL Central Soybean Oil Meal Central Soya Co. Dexter, Ind.	G. F. 41.00 42.51	4.50 5.07	35.00 36.54	6.83	9.86	7.00	

Evans 41% Protein Soybean Oil Meal .. Evans Milling Co. Indianapolis, Ind.	G. F.	41.00 45.22	4.50 4.77	29.00 36.24	6.42	7.35	7.00
Soybean Oil Meal, Expeller Process .. Norris Grain Co. Chicago, Ill.	G. F.	41.00 39.73	4.50 5.42	37.00 39.34	5.59	9.92	7.00
Old Fort Soybean Oil Meal .. Old Fort Mills .. Marion, O.	G. F.	41.00 41.63	5.00 5.12	36.00 35.34	6.29	11.62	7.00
Shellabarger's Cooked Soybean Oil Meal .. Shellabarger Grain Products Co. Decatur, Ill.	G. F.	41.00 44.87	4.50 5.70	35.00 38.54	6.34	4.55	7.50
Kellogg's Old Process Soybean Oil Meal .. Spencer Kellogg & Sons .. Chicago, Ill.	G. F.	41.00 42.25	4.50 4.62	36.00 35.70	6.09	11.34	7.00
STOCK FEED							
Barco Stock Feed .. G. N. Bartemus Co. Concord, N. H.	G. F.	9.50 9.54	4.50 4.60	70.00 70.19	5.53	10.14	9.50 Hominy, corn meal, oat mill feed, oats, bar- ley, linseed meal, salt.
Concord Stock Feed .. G. N. Bartemus Co. Concord, N. H.	G. F.	7.50 8.75	2.80 4.08	70.00 72.16	5.47	9.54	14.45 Hominy, corn meal, oat mill feed, salt, lin- seed meal, barley.
Delaware White Stock Feed .. Delaware Mills .. Deposit, N. Y.	G. F.	9.00 11.04	3.00 4.57	65.00 69.17	5.81	8.81	12.00 Corn meal, hominy feed, wheat middlings, barley, oat middlings, oat hulls, oat shorts, salt, calcium phosphate, calcium carbonate.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Frederick Stock Feed Dietrich & Gambrell Frederick, Md.	G. 7.50 F. 10.24	3.00 3.52	72.00 72.23	 4.71	 9.30	12.00 10.62	Corn feed meal, oats, oat middlings, oat shorts, oat hulls, salt.
Elmore Stock Feed Elmore Milling Co. Oneonta, N. Y.	G. 10.00 F. 11.07	3.00 4.95	60.00 70.78	 5.00	 8.20	12.00 12.47	Corn meal or hominy feed, oats, oat meal by products, salt.
North Star Stock Feed Farm Service Station Fitchburg, Mass.	G. 9.00 F. 9.50	3.00 3.64	50.00 72.37	 4.57	 9.92	12.00 11.38	Corn meal, wheat middlings, wheat red dog, barley, oat middlings, wheat screenings, salt.
Garland Stock Feed J. B. Garland & Son Worcester, Mass.	G. 8.50 F. 9.54	4.00 5.02	50.00 71.37	 5.22	 8.85	12.00 11.84	Corn, oats, hominy feed, oat middlings, oat shorts, calcium carbonate, salt.
Grandin's Stock Feed D. H. Grandin Milling Co. Jamestown, N. Y.	G. 9.00 F. 9.19	4.00 3.49	70.00 72.44	 6.61	 8.27	12.00 10.80	Hominy feed, corn meal, corn feed meal, oats, barley, oat mill feed, steamed bone meal, calcium carbonate, salt, potassium iodide.
Granite State Stock Feed F. C. & W. L. Hoskins Greenfield, N. H.	G. 9.00 F. 9.34	5.00 5.00	60.00 71.53	 5.06	 8.87	10.00 8.81	White hominy, wheat red dog, oat by-products, salt.
Merrimack Stock Feed Merrimack Farmers' Exchange Concord, N. H.	G. 9.00 F. 11.77	4.00 5.29	60.00 67.05	 7.35	 8.54	11.00 10.19	Molasses, soybean oil meal, hominy, oat feed, salt, calcium carbonate, linseed meal, barley.

Park and Pollard Stock Feed Park & Pollard Co. Boston, Mass.	G. F.	9.00 9.76	4.00 4.00	50.00 69.38	7.14	9.72	12.60 8.61	Barley, corn, oats, hominy feed, oat hulls, oat middlings, oat shorts, molasses, calcium carbonate, salt.
Quaker Sugared Schumacher Feed Quaker Oats Co. Chicago, Ill.	G. F.	10.00 11.20	3.00 3.32	67.00 70.61	6.33	8.54	12.00 9.69	Corn meal, hominy feed, yellow hominy feed, barley meal, soybean oil meal, low grade wheat flour, wheat standard middlings, oat mill feed, salt, iodized limestone, bone meal, molasses.
Wirthmore Stock Feed St. Albans Grain Co. St. Albans, Vt.	G. F.	9.00 9.50	4.00 4.63	70.00 69.55	7.42	8.90	9.50 7.56	Barley, oats, hominy feed, corn, oat meal, mill by-products, cane molasses, bone meal, calcium carbonate, salt.
Stratton & Co.'s Stock Feed Stratton & Co. Concord, N. H.	G. F.	7.50 7.38	2.83 2.85	66.00 70.72	8.63	10.43	11.43 14.95	Oat mill feed, oat middlings, corn bran, cracked corn siftings, yellow corn meal.
Limerick Stock Feed Jacob Trinley & Sons Linfield, Pa.	G. F.	9.00 10.20	2.50 4.25	65.00 70.11	6.80	8.61	14.00 15.66	Soybean oil meal, cottonseed meal, corn meal, oats, oat mill by-products, molasses, salt.
WHEAT BRAN Atkinson's Wheat Bran Atkinson Milling Co. Minneapolis, Minn.	G. F.	14.00 17.82	4.00 4.20	40.00 64.49	5.65	10.84	12.00	Mill run screenings.
Eagle Wheat Bran Eagle Roller Mill Co. New Ulm, Minn.	G. F.	11.00 17.20	4.00 5.07	60.00 59.34	6.14	12.37	12.00	Wheat bran, mill run wheat screenings.
Dairy Maid Bran Federal Mill Lockport, N. Y.	G. F.	12.50 11.05	3.50 4.37	57.00 65.20	6.30	10.08	13.00	Soft winter wheat.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Lucky Bran Federal Mill Lockport, N. Y.	G. 15.00 F. 18.78	3.00 4.88	60.00 58.71	... 6.77	... 10.86	14.00	Hard wheat, mill run screenings.
Corn Pure Winter Wheat Bran J. F. Imbs Milling Co. St. Louis, Mo.	G. 14.00 F. 13.85	3.50 4.21	55.00 63.82	... 6.34	... 10.38	11.00	
Blackhawk Pure Wheat Bran International Milling Co. Minneapolis, Minn.	G. 13.00 F. 16.24	3.30 4.25	62.00 61.43	... 7.02	... 11.06	12.00	
Big Flake Pure Wheat Bran Kansas Flour Mills Corp. Kansas City, Mo.	G. 15.00 F. 15.10	3.50 4.21	60.00 64.28	... 5.92	... 10.49	11.00	
Wheat Bran Barnard Milling Co. Wichita, Kans.	G. 15.50 F. 15.50	3.50 4.10	58.00 62.30	... 6.35	... 11.75	11.00	Mill run screenings.
Softed Winter Wheat Bran Larabee Flour Mills Co. Kansas City, Mo.	G. 15.00 F. 16.42	3.50 4.31	58.00 61.83	... 6.20	... 11.24	11.00	Wheat bran, mill run wheat screenings.
Pure Wheat Bran J. C. Lysle Milling Co. Leavenworth, Kan.	G. 14.50 F. 14.62	3.50 4.34	61.00 63.63	... 6.45	... 10.96	11.00	

Wheat Bran	G.	14.50	3.50	61.00	....	10.20	11.00	Wheat bran, mill run wheat screenings.
Maney Milling Co. Omaha, Nebr.	F.	16.90	4.44	62.28	6.18	....	....	
Town Crier Pure Wheat Bran	G.	16.00	3.50	59.00	....	....	10.00	
Midland Flour Milling Co. Kansas City, Mo.	F.	15.00	4.02	63.76	7.04	10.18	....	
Moon's Wheat Bran	G.	15.00	3.00	54.00	....	....	10.00	Wheat bran, mill run screenings.
George Q. Moon & Co. Binghamton, N. Y.	F.	14.17	3.49	67.00	4.07	11.27	....	
Pure Wheat Bran	G.	15.00	3.50	58.00	....	....	11.00	
Moore-Lowry Flour Mills Co. Coffeyville, Kans.	F.	16.37	3.99	61.54	6.54	11.56	....	
Pure Wheat Bran	G.	14.00	3.00	49.00	....	....	10.00	
National Milling Co. Toledo, O.	F.	13.46	4.01	65.38	6.00	11.15	....	
Nelco Wheat Bran	G.	15.50	3.50	61.00	....	....	11.00	
Nebraska Consolidated Mills Co. Omaha, Nebr.	F.	14.94	4.36	63.04	7.28	10.38	....	
Pure Wheat Bran	G.	14.00	4.00	62.00	....	....	12.00	
Northwestern Consolidated Milling Co. Minneapolis, Minn.	F.	17.29	4.81	59.58	5.82	12.50	....	
Omar Pure Wheat Bran	G.	15.00	3.00	50.00	....	....	11.00	
Omar Mills	F.	16.02	4.93	61.10	6.35	10.60	....	
Omaha, Nebr.								

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Pillsbury's Hard Wheat Bran	G. 14.00	4.00	63.00	...	...	12.00	Hard wheat bran, mill run wheat screenings.
Pillsbury Flour Mills Co. Minneapolis, Minn.	F. 15.80	4.40	62.68	6.02	11.10	....	
Pillsbury's Wheat Bran	G. 14.50	3.50	63.00	...	...	10.00	Wheat bran, wheat screenings.
Pillsbury Flour Mills Co. Archison, Kans.	F. 15.85	4.32	62.17	7.13	10.53	....	
Aunt Jenina Pure Wheat Bran	G. 14.50	3.50	66.00	...	...	11.00	Wheat bran, mill run screenings.
Quaker Oats Co. Chicago, Ill.	F. 16.81	4.06	61.06	6.09	11.98	....	
Heart of America Pure Wheat Bran ..	G. 16.50	3.50	60.00	...	...	10.00	Wheat bran, mill run screenings.
Rodney Milling Co. Kansas City, Mo.	F. 16.41	4.32	61.91	6.38	10.98	....	
Occident Bran	G. 14.00	4.00	61.50	...	...	11.50	Hard wheat.
Russell Miller Milling Co. Minneapolis, Minn.	F. 18.30	5.15	58.89	6.06	11.60	....	
Sunbeam Wheat Bran	G. 15.00	3.50	66.00	...	...	10.00	Winter wheat bran.
Schultz, Bauman & Co. Earlston, Ill.	F. 13.16	4.21	66.32	6.83	9.48	....	
Stratton & Co.'s Fancy Wheat Bran	G. 14.00	4.00	64.00	...	...	11.00	Wheat bran, mill run screenings.
Stratton & Co. Concord, N. H.	F. 13.93	4.43	64.26	6.02	11.36	....	

Golden Loaf Bran	G.	16.00	4.00	48.00	....	....	11.00
Tennant & Hoyt Co.	F.	17.25	4.60	60.63	6.43	11.09	....
Lake City, Minn.							
Rosena Wheat Bran	G.	13.75	4.00	62.30	....	....	12.30
Valley City Milling Co.	F.	13.27	4.09	65.96	5.44	11.24	....
Portland, Mich.							
Victor Spring Wheat Bran	G.	15.00	4.00	53.30	....	....	11.00
Victor Flour Mills	F.	17.60	4.63	59.64	6.03	12.10	....
Victor, N. Y.							Mill run screenings.
Voigt's Pure Winter Wheat Bran	G.	14.00	3.00	49.00	....	....	10.00
Voigt Milling Co.	F.	15.80	3.88	62.00	5.39	12.93	....
Grand Rapids, Mich.							
Washburn's Gold Medal Hard Wheat Bran	G.	14.00	4.00	63.00	....	....	12.00
Washburn Crosby Co.	F.	15.67	4.30	61.89	6.27	11.87	....
Buffalo, N. Y.							Hard wheat bran, mill run wheat screenings.
Tea Table Wheat Bran	G.	14.50	3.50	58.00	....	....	11.00
Weber Flour Mills Co.	F.	16.46	4.00	62.55	7.17	9.82	....
Salina, Kans.							Wheat bran, wheat screenings.
Wheat Bran	G.	14.50	3.50	55.00	....	....	11.00
Wichita Flour Mill Co.	F.	17.42	4.79	61.02	6.58	10.19	....
Wichita, Kans.							Wheat bran, wheat screenings.
Wheat Bran	G.	15.00	3.50	58.00	....	....	11.00
William Kelly Milling Co.	F.	17.34	4.15	61.37	5.88	11.26	....
Hutchinson, Kans.							Wheat bran, mill run wheat screenings.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Crude Fiber	Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture		
WHEAT MIDDINGS							
Atkinson's Wheat Standard Middlings Atkinson Milling Co. Minneapolis, Minn.	G. 15.00 F. 10.95	4.00 3.87	59.50 59.17	5.19	11.64	9.50	Mill run screenings.
Sunfed Wheat Standard Middlings . . . Commander-Larabee Milling Co. Minneapolis, Minn.	G. 15.00 F. 17.77	4.00 4.87	62.00 61.18	5.13	11.05	9.50	Mill run screenings.
Fine Wheat Middlings Crookston Milling Co. Crookston, Minn.	G. 15.00 F. 16.24	5.00 4.21	65.00 63.86	3.25	12.44	9.00	Mill run screenings.
Flag Wheat Standard Middlings Eagle Roller Mill Co. New Ulm, Minn.	G. 17.08 F. 17.08	4.30 4.30	62.65 62.65	4.89	11.08	9.50	Wheat standard middlings, mill run wheat screenings.
Dairy Maid Flour Middlings Federal Mill Lockport, N. Y.	G. 13.50 F. 13.41	3.50 3.41	58.00 67.10	3.37	9.91	6.00	Mill run wheat screenings.
Lucky Standard Milling Federal Mill Lockport, N. Y.	G. 20.09 F. 20.09	4.50 4.86	56.00 59.43	4.72	10.90	9.50	Hard wheat, mill run screenings.
Lucky Wheat Flour Middlings Federal Mill Lockport, N. Y.	G. 16.00 F. 12.52	4.00 4.00	56.00 58.85	6.39	11.24	6.00	Mill run screenings.

Wheat Standard Middlings Hecker-Jones-Jewell Milling Co. Buffalo, N. Y.	G. F.	15.00 19.70	4.00 4.92	51.00 58.85	5.32	11.21	9.50	Wheat standard middlings, mill run screenings.
Blackhawk Wheat Standard Middlings International Milling Co. Minneapolis, Minn.	G. F.	16.00 18.78	4.50 5.34	60.50 59.90	5.30	10.68	8.50	Mill run screenings.
Kaysee Standard Middlings Kansas City Mills Kansas City, Mo.	G. F.	17.00 17.60	4.20 4.00	52.00 61.65	4.37	12.38	7.50	Wheat standard middlings, wheat screenings.
Extra Quality Wheat Standard Middlings LaGrange Mills Red Wing, Minn.	G. F.	16.50 18.30	5.00 5.06	60.20 60.84	4.60	11.20	9.50	Mill run screenings.
Rex Wheat Middlings Maple Leaf Milling Co. Toronto, Canada	G. F.	16.00 18.39	5.00 5.25	53.00 61.38	4.23	10.75	7.50	Mill run screenings.
Moon's Wheat Middlings George Q. Moon & Co. Binghamton, N. Y.	G. F.	14.00 14.89	2.85 5.20	56.00 66.44	3.73	9.74	7.50	
Namico National Biscuit Co. Toledo, O.	G. F.	15.00 15.37	3.50 4.18	49.00 64.46	3.63	12.36	9.00	Wheat middlings, mill run screenings.
Wheat Flour Middlings Northwestern Consolidated Milling Co. Minneapolis, Minn.	G. F.	15.00 17.34	4.00 4.21	62.00 63.01	4.25	11.19	6.00	Wheat flour middlings, mill run screenings.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
Standard Wheat Middlings Omar Mills Omaha, Neb.	G. F. 16.00 16.24	2.50 2.34	82.00 63.97	 4.37	 11.13	7.50 Wheat middlings, wheat screenings.
Pillsbury's Hard Wheat Standard B Middlings Pillsbury Flour Mills Co. Minneapolis, Minn.	G. F. 15.00 16.44	3.00 4.47	62.50 62.88	 6.01	 10.80	9.50 Hard wheat standard middlings, mill run wheat screenings.
Wheat Flour Middlings Rodney Milling Co. Kansas City, Mo.	G. F. 16.00 15.17	2.50 4.09	61.00 61.14	 5.20	 10.25	6.00 Wheat flour middlings, mill run screenings.
Oshtemo Standard Middlings Rosedale Milling Co. Minneapolis, Minn.	G. F. 15.00 18.74	3.00 5.09	59.50 60.26	 5.03	 10.50	9.50 Hard wheat.
Stratton & Co's Fancy Fino White Middlings Stratton & Co. Concord, N. H.	G. F. 14.00 15.54	4.46 5.88	66.00 64.77	 4.01	 10.80	6.50
Stratton & Co's Standard Wheat Middlings Stratton & Co. Concord, N. H.	G. F. 14.00 14.10	4.00 5.04	82.00 64.37	 4.67	 12.37	9.00 Mill run screenings.
Golden Leaf Wheat Middlings Tennant & Hoyt Co. Lake City, Minn.	G. F. 17.00 19.65	7.00 4.73	34.00 60.00	 4.54	 10.74	8.00 Mill run screenings.

Rowena Middlings	G.	14.00	4.20	64.90	...	...	6.00	Mill run wheat screenings.
Valley City Milling Co. Portland, Mich.	F.	14.41	4.20	67.29	3.18	10.92	..	
Washburn's Gold Medal Hard Wheat Standard Middlings	G.	15.00	4.00	62.50	...	...	9.50	Hard wheat standard middlings, mill run
Washburn Crosby Co. Buffalo, N. Y.	F.	17.51	4.39	62.84	4.30	10.96	....	wheat screenings.
WHEAT MIXED FEED								
Barco Mixed Feed	G.	14.00	3.00	60.00	...	...	7.00	Wheat bran, wheat red dog.
G. N. Bartemus Co. Concord, N. H.	F.	16.68	3.87	64.21	4.50	10.74	....	
Eagle Wheat Mixed Feed	G.	15.00	4.00	60.50	...	...	9.50	Wheat bran, standard middlings, wheat red
Eagle Roller Mill Co. New Ulm, Minn.	F.	17.43	4.62	61.94	5.16	10.85	....	dog, mill run wheat screenings.
Camel Fancy Wheat Feed	G.	16.00	4.00	64.00	...	...	7.50	
Excessor Milling Co. Minneapolis, Minn.	F.	14.06	4.00	67.23	5.08	9.63	....	
Dairy Maid Mixed Feed	G.	13.00	3.50	57.00	...	...	10.00	Soft winter wheat, mill run screenings.
Federal Mill	F.	15.19	4.27	65.36	4.78	10.40	....	
Lockport, N. Y.								
Lucky Wheat Mixed Feed	G.	15.50	3.50	56.00	...	...	10.50	Hard wheat bran, hard wheat middlings,
Federal Mill	F.	17.77	4.07	62.53	4.65	10.98	....	mill run wheat screenings.
Lockport, N. Y.								
Granite State Mixed Feed	G.	15.00	4.00	55.00	...	...	8.50	Wheat bran, wheat red dog, mill run screen-
E. C. & W. L. Hopkins	F.	16.99	4.54	63.05	5.43	9.99	....	ings.
Greenfield, N. H.								

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Marshall's Feed Wheat Feed Marshall, Concord, N. H.	G. 15.00 F. 16.94	4.00 4.03	55.00 63.17	5.02	10.84	9.00	Wheat bran, second clear flour.
Moon's Mixed Feed George O. Moon & Co. Binghamton, N. Y.	G. 15.00 F. 12.78	4.00 3.31	56.00 69.17	4.61	10.13	10.00	Wheat bran, wheat middlings, mill run screenings.
Planet Feed Northwestern Consolidated Milling Co. Masonville, Wis.	G. 15.00 F. 18.12	4.00 4.19	63.00 61.02	4.10	12.57	8.00	Wheat bran, red dog wheat flour.
Pillsbury's Fancy Wheat Mixed Feed Pillsbury Flour Mills Co. Minneapolis, Minn.	G. 15.00 F. 16.85	4.00 4.28	63.50 63.55	4.73	10.59	8.50	Wheat red dog, hard wheat bran, mill run wheat screenings.
Trusky's Extra Wheat Mixed Feed Rutledge Feeding Co. St. Johnsbury, Vt.	G. 15.00 F. 18.13	4.00 4.18	63.00 62.09	4.75	10.85	8.00	Wheat bran, wheat middlings, red dog flour.
Occident Mixed Feed Russell Miller Milling Co. Missoula, Mont.	G. 15.00 F. 18.69	4.50 4.86	61.50 59.84	5.59	11.02	9.50	Wheat bran, wheat middlings, wheat red dog.
Wheatland Wheat Feed St. Albans Grain Co. St. Albans, Vt.	G. 15.00 F. 17.25	3.75 4.03	50.00 61.35	5.40	11.97	8.00	Wheat bran, wheat red dog flour, mill run screenings.

Red Poll Wheat Mixed Feed	G.	15.00	4.00	60.00	....	....	9.50	Wheat bran, wheat middlings, wheat red
Standard Milling Co.	F.	15.41	5.08	63.33	4.63	11.55	....	dog flour, mill run screenings.
Duluth, Minn.								
Stratton & Co.'s Wheat Mixed Feed ...	G.	13.50	4.11	63.00	....	....	7.13	Mill run screenings.
Stratton & Co.	F.	14.32	4.69	64.81	5.14	11.04	....	
Concord, N. H.								
Rowena Mixed Feed	G.	14.00	4.10	63.60	....	....	8.20	Mill run wheat screenings.
Valley City Milling Co.	F.	13.89	4.23	67.38	4.23	10.27	....	
Portland, Mich.								
Washburn's Gold Medal Fancy Wheat	G.	15.00	3.50	65.50	....	....	7.50	Hard wheat bran, mill run wheat screen-
Mixed Feed	F.	16.15	3.97	64.28	4.05	11.55	....	ings, low grade wheat flour.
Washburn Crosby Co.								
Buffalo, N. Y.								
WHEAT RED DOG								
Atkinson's Watchword Wheat Red Dog ..	G.	16.00	3.50	60.00	....	....	4.00	
Atkinson Milling Co.	F.	21.45	2.72	60.62	3.35	11.86	....	
Minneapolis, Minn.								
Red Dog Wheat Flour	G.	15.00	3.00	60.00	....	....	3.00	
Duluth-Superior Milling Co.	F.	17.12	3.59	64.96	2.57	11.76	....	
Duluth, Minn.								
Lucky Wheat Red Dog	G.	16.00	3.50	58.00	....	....	4.00	
Federal Mill	F.	16.99	2.96	65.02	3.63	11.40	....	
Lockport, N. Y.								

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
XXX Comet Northwestern Consolidated Milling Co., Minneapolis, Minn.	G. F. 16.00 18.78	4.00 3.69	54.00 63.05	2.50	11.98	4.00	Red dog wheat flour.
Pillsbury's XX Daisy Pillsbury Flour Mills Co., ... Minneapolis, Minn.	G. F. 16.00 18.17	4.00 4.63	62.00 61.48	4.91	10.81	4.00	Wheat red dog.
Wheat Red Dog Flour Chicago Union Milling Co., ... Buffalo, N. Y.	G. F. 15.00 16.99	4.00 3.76	50.00 65.22	2.63	11.40	4.00	
Washburn's (Gold Medal) Hard Wheat Adrian Red Dog Washburn-Crosby Co., ... Buffalo, N. Y.	G. F. 16.00 18.08	3.50 3.70	64.00 63.87	2.54	11.81	4.00	Hard wheat red dog.
WHEAT SHORTS							
Harvest Wheat Shorts Frank B. Ham & Co., ... Toronto, Canada	G. F. 16.00 15.04	5.00 4.43	52.00 64.76	4.07	11.70	8.00	
Jensen's Wheat Gray Shorts Rodney Milling Co., ... Kansas City, Mo.	G. F. 17.00 17.76	2.50 4.44	61.00 62.17	5.32	10.31	6.00	Wheat gray shorts, mill run wheat screenings.

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